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Testing Support for Evaluation of Inspection/Maintenance Issues, Test Group No. 11

Hamilton Test Systems, Inc.
Phoenix, AZ

Prepared for

Environmental Protection Agency
Ann Arbor, MI

1980

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The intention of this test group was to investigate several vehicle types for possible shortfalls between ~~their~~ EPA certification test fuel economy levels and their in-use fuel economy as measured by the same test.

Twenty different types of vehicles were evaluated ~~with~~ with a total of 129 vehicles being tested. The vehicles were model years 1978-1980 and were recruited from the Portland, Oregon tri-county area.

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TESTING SUPPORT FOR EVALUATION OF INSPECTION/MAINTENANCE ISSUES

TEST GROUP NO. 11

by

Hamilton Test Systems, Incorporated
2303 East Thomas Road
Phoenix, Arizona 85016

Contract No. 68-03-2829
EPA Project Officer: H. Anthony Ashby

Prepared for

U. S. ENVIRONMENTAL PROTECTION AGENCY
Office of Mobile Source Air Pollution Control
Emission Control Technology Division
Ann Arbor, Michigan 48105

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TEST GROUP NO. 11 REPORT

5.8 TEST GROUP NO. 11 - FUEL ECONOMY SHORTFALL TESTING

5.8.1 SUMMARY

The intention of this test group was to investigate several vehicle types for possible shortfalls between their EPA certification test fuel economy levels and their in-use fuel economy as measured by the same test.

Twenty different types of vehicles were evaluated with a total of 129 vehicles being tested. The vehicles were model years 1978-1980 and were recruited from the Portland, Oregon tri-county area.

The testing on each vehicle consisted of an Idle Test, FTP, Highway Fuel Economy Test (HFET), 50 MPH Cruise Test, Two Mode Test, Four Mode Test, Propane Gain Checks and a complete diagnostic check. Vehicles which failed the FTP were restored and retested in accordance with the tests specified above.

Five of the vehicle types tested exhibited a fuel economy shortfall of at least 8 percent. They were as follows:

VEHICLE TYPE	PERCENT SHORTFALL FTP	HFET
1980 Datsun 210 (91-1V)	13%	10%
1980 Ford Courier (120-2V)	13%	7%
1980 GM X-Body (173-2V)	8%	7%
1980 Malibu/Camaro (229-2V)	10%	11%
1979 Chevrolet Pickup (350-4V)	9.5%	8%

The fifteen other vehicle types evaluated were as follows:

- 1980 Jeep CJ-5 (151-2V)
- 1980 Fairmont (200-1V)
- 1980 Datsun B210 (85-1V)
- 1980 GM X-Body (151-2V)
- 1978 VW Dasher (97-FI)
- 1979 Mustang (140-2V)
- 1979 Pinto/Bobcat (140-2V)
- 1979 Fairmont/Zephyr (140-2V)
- 1979 Capri (302-2V)
- 1979 Granada/Monarch (302-2V)
- 1979 Camaro (250-1V)
- 1979 Chevette (98-2V)
- 1979 Honda (76-2V)
- 1979 Subaru (97-2V)
- 1979 LUV Pickup (110-2V)

5.8.2 VEHICLE SELECTION

The types of in-use vehicles to be evaluated for fuel economy shortfall were specified by EPA. The types selected were as follows:

YEAR	MAKE/MODEL	ENGINE	TRANSMISSION
1978	VW Dasher	97-FI	Manual
1979	Chevrolet Chevette	98-2V	Automatic
1979	Honda Civic	76-2V	Manual
1979	Subaru	97-2V	Automatic
1979	Chevrolet Camaro	250-1V	Automatic
1979	Ford Pinto, Mercury Bobcat	140-2V	Automatic
1979	Ford Mustang	140-2V	Automatic
1979	Fairmont, Mercury Zephyr	140-2V	Automatic
1979	Ford Granada, Mercury Monarch	302-2V	Automatic
1979	Mercury Capri	302-2V	Automatic
1979	Chevrolet 1/2 Ton Pickup	350-4V	Automatic
1979	Chevrolet LUV Pickup	111-2V	Manual
1980	Jeep CJ-5	151-2V	Manual
1980	Ford Fairmont, Mercury Zephyr	200-1V	Automatic
1980	Datsun 210	91-1V	Manual
1980	Ford Courier	120-2V	Manual
1980	GM X-Body	173-2V	Automatic
1980	GM X-Body	151-2V	Automatic
1980	Chevrolet Malibu, Camaro	229-2V	Automatic

Using a computer tape of the Oregon Motor Vehicle Division registration information, a search was performed to provide a listing of owners of the desired vehicles.

5.8.3 VEHICLE RECRUITMENT

Between five and eight vehicles of each of the selected vehicle types were recruited. Prior to recruiting the required Datsuns with 91 CID engine, five Datsuns with 85 CID engines were inadvertently recruited. A total of 129 vehicles were recruited and a listing of these vehicles is provided on Table 5.8-1.

TABLE 5.8-1 VEHICLE IDENTIFICATION INFORMATION

EPA NO	VEH IDENT NO	MAKE	MODEL	CID	FS	C	WT	T	AS	CC	EG	AC	EI	AXLE
00101	J0M83EB049325	JEEP	CJ5	151	2V	4	2780	1	2	1	1	2	1	3.54
00102	J0M83AB720123	JEEP	CJ5	151	2V	4	2700	1	2	1	1	2	1	3.54
00103	J0M83AB015310	JEEP	CJ5	151	2V	4	2600	1	2	1	1	2	1	3.54
00104	J0M83EB010970	JEEP	CJ5	151	2V	4	2780	1	2	1	1	2	1	3.54
00105	J0M83EB011509	JEEP	CJ5	151	2V	4	2710	1	2	1	1	2	1	3.54
00106	J0M83EB044323	JEEP	CJ5	151	2V	4	2610	1	2	1	1	2	1	3.54
00201	0K92B138499	FORD	FAIRM	200	1V	6	2920	2	2	1	1	1	1	2.73
00202	0K92B143059	FORD	FAIRM	200	1V	6	2890	2	2	1	1	1	1	2.73
00203	0K91B180441	FORD	FAIRM	200	1V	6	2790	2	2	1	1	2	1	2.73
00204	0E93B139873	FORD	FAIRM	200	1V	6	2720	2	2	1	1	2	1	2.73
00205	0K92B143058	FORD	FAIRM	200	1V	6	2650	2	2	1	1	2	1	2.73
00206	0K94B145176	FORD	FAIRM	200	1V	6	2830	2	2	1	1	1	1	2.73
00207	0K92B116739	FORD	FAIRM	200	1V	6	2800	2	2	1	1	2	1	2.73
00301	WHLB310061121	DATSU	210	85	1V	4	2130	1	1	1	1	2	1	3.70
00302	PLB310523503	DATSU	210	91	2V	4	1970	1	1	1	1	2	1	3.70
00303	HLB310715613	DATSU	210	85	1V	4	2040	1	1	1	1	2	1	3.70
00304	HLB310705583	DATSU	210	85	1V	4	2000	1	1	1	1	2	1	3.70
00305	KHLB310563799	DATSU	210	85	1V	4	2020	1	1	1	1	2	1	3.70
00306	HLB310701987	DATSU	210	85	1V	4	2020	1	1	1	1	2	1	3.70
00307	PLB310524313	DATSU	210	91	2V	4	2060	1	1	1	1	1	1	3.55
00308	PLB310533580	DATSU	210	91	2V	4	2010	1	1	1	1	2	1	3.55
00309	PLB310539075	DATSU	210	91	2V	4	1960	1	1	1	1	2	1	3.55
00310	PL8310531397	DATSU	210	91	2V	4	1980	1	1	1	1	2	1	3.70
00311	PLB310533368	DATSU	210	91	2V	4	2010	1	1	1	1	2	1	3.55
00401	SGTCWU54642	FORD	COURI	120	2V	4	2570	1	1	1	1	2	1	3.31
00402	SGTBWV58642	FORD	COURI	140	2V	4	2560	1	1	1	1	2	1	3.64
00403	SGTBXB82589	FORD	COURI	140	2V	4	2560	1	1	1	1	1	1	3.64
00404	SGTCXB79877	FORD	COURI	120	2V	4	2650	1	1	1	1	2	1	3.64
00405	SGTCWU52961	FORD	COURI	120	2V	4	2630	1	1	1	1	2	1	3.31
00406	SGTCWU53196	FORD	COURI	120	2V	4	2540	1	1	1	1	2	1	3.31
00407	SGTCXB78029	FORD	COURI	120	2V	4	2530	1	1	1	1	2	1	3.31
00408	SGTCWM60930	FORD	COURI	120	2V	4	2700	1	1	1	1	2	1	3.31
00501	1X687A6251551	CHEV	CITAT	173	2V	6	2680	2	1	1	1	1	1	2.84
00502	4B697KW254242	BUICK	SKYLK	173	2V	6	2620	2	1	1	1	1	1	2.84
00503	4B697AW255181	BUICK	SKYLK	173	2V	6	2670	2	1	1	1	1	1	2.84
00504	3B377AW164142	OLDS	OMEGA	173	2V	6	2660	2	1	1	1	1	1	2.84
00505	1X687A6251172	CHEV	CITAT	173	2V	6	2680	2	1	1	1	1	1	2.84
00506	4B697AW256475	BUICK	SKYLK	173	2V	6	2650	2	1	1	1	1	1	2.84
00507	3B697AW170269	OLDS	OMEGA	173	2V	6	2680	2	1	1	1	1	1	2.84
00508	3B697AW170511	OLDS	OMEGA	173	2V	6	2650	2	1	1	1	1	1	2.84
00601	1X685A6255464	CHEV	CITAT	151	2V	4	2680	2	1	1	1	1	1	2.53
00602	1X685A6122323	CHEV	CITAT	151	2V	4	2670	2	1	1	1	1	1	2.53
00603	1X685A6126287	CHEV	CITAT	151	2V	4	2550	2	1	1	1	2	1	2.53
00604	1X685A6110577	CHEV	CITAT	151	2V	4	2640	2	1	1	1	2	1	2.53
00605	1X685A6160906	CHEV	CITAT	151	2V	4	2710	2	1	1	1	1	1	2.53
00606	1X685A6121937	CHEV	CITAT	151	2V	4	2670	2	1	1	1	1	1	2.53

TABLE 5.8-1 VEHICLE IDENTIFICATION INFORMATION (CONT'D)

EPA NO	VEH IDENT NO	MAKE	MODEL	CID	FS	C	WT	T	AS	CC	EG	AC	EI	AXLE
00701	1W19KAK464006	CHEV	MALIB	229	2V	6	3300	2	1	1	1	1	1	2.41
00702	1T35KAK430559	CHEV	MALIB	229	2V	6	3390	2	1	1	1	1	1	2.73
00703	1S87KAL547890	CHEV	CAMAR	229	2V	6	3340	2	1	1	1	2	1	2.73
00704	1P87KAL505408	CHEV	CAMAR	229	2V	6	3300	2	1	1	1	2	1	2.73
00705	1W35KAK511445	CHEV	MALIB	229	2V	6	3280	2	1	1	1	2	1	2.73
00706	1P87KAL551133	CHEV	CAMAR	229	2V	6	3330	2	1	1	1	2	1	2.73
80201	3282043126	VOLKS	DASHR	97	FI	4	2020	1	2	2	1	2	2	4.11
80202	3282076622	VOLKS	DASHR	97	FI	4	1960	1	2	2	1	2	2	4.11
80203	3282043320	VOLKS	DASHR	97	FI	4	1960	1	2	2	1	2	2	4.11
80204	3282076655	VOLKS	DASHR	97	FI	4	2250	1	2	2	1	2	2	4.11
80205	3382108282	VOLKS	DASHR	97	FI	4	2190	1	2	2	1	2	2	4.11
80206	3382092659	VOLKS	DASHR	97	FI	4	2230	1	2	2	1	2	2	4.11
91301	9R03Y122312	FORD	MUSTA	140	2V	4	2620	2	2	1	1	2	1	3.08
91302	9X92Y220210	FORD	FAIRM	140	2V	4	2820	2	2	1	1	2	1	2.73
91303	9K35Y607305	MERC	ZEPHY	140	2V	4	2860	2	2	1	1	1	1	3.08
91304	9X92Y158660	FORD	FAIRM	140	2V	4	2800	2	2	1	1	1	1	2.73
91305	9K91Y111192	FORD	FAIRM	140	2V	4	2820	2	2	1	1	2	1	2.73
91306	9T11Y118506	FORD	PINTO	140	2V	4	2560	2	2	1	1	2	1	3.08
91307	9R02Y108557	FORD	MUSTA	140	2V	4	2560	2	2	1	1	2	1	3.08
91308	9T11Y206393	FORD	PINTO	140	2V	4	2490	2	2	1	1	2	1	3.08
91309	9T20Y603280	MERC	BOBCT	140	2V	4	2500	2	2	1	1	2	1	3.08
91310	9R02Y153806	FORD	MUSTA	140	2V	4	2580	2	2	1	1	2	1	3.08
91311	9R04Y125197	FORD	MUSTA	140	2V	4	2750	2	2	1	1	2	1	3.08
91312	9T11Y139264	FORD	PINTO	140	2V	4	2510	2	2	1	1	2	1	3.08
91313	9X92Y158119	FORD	FAIRM	140	2V	4	2750	2	2	1	1	2	1	2.73
91314	9R02Y100873	FORD	MUSTA	140	2V	4	2570	2	2	1	1	2	1	3.08
91315	9R02Y124628	FORD	MUSTA	140	2V	4	2580	2	2	1	1	2	1	3.08
91316	9T12Y167372	FORD	PINTO	140	2V	4	2660	2	2	1	1	2	1	3.08
91317	9R04Y113070	FORD	MUSTA	140	2V	4	2770	2	2	1	1	1	1	3.08
91318	9R05Y138924	FORD	MUSTA	140	2V	4	2690	2	2	1	1	2	1	3.08
91701	9W34F633337	MERC	MONAR	302	2V	8	3580	2	1	1	1	1	1	2.79
91702	9E81F157168	FORD	GRANA	302	2V	8	3480	2	1	1	1	1	1	2.79
91703	9W81F133085	FORD	GRANA	302	2V	8	3500	2	1	1	1	1	1	2.79
91705	9E81F114142	FORD	GRANA	302	2V	8	3450	2	1	1	1	1	1	2.76
91706	9F14F631678	MERC	CAPRI	302	2V	8	2920	2	1	1	1	1	1	2.47
91707	9R16F600721	MERC	CAPRI	302	2V	8	3100	2	1	1	1	1	1	2.47
91708	9R14F628620	MERC	CAPRI	302	2V	8	2920	2	1	1	1	2	1	2.47
91709	9R16F602879	MERC	CAPRI	302	2V	8	3080	2	1	1	1	1	1	2.47
91710	9R14F607795	MERC	CAPRI	302	2V	8	2930	2	1	1	1	2	1	2.47
91711	9R16F626723	MERC	CAPRI	302	2V	8	3010	2	1	1	1	1	1	2.47
91712	9W82F128028	FORD	GRANA	302	2V	8	3510	2	1	1	1	1	1	2.79
91713	9E81F133582	FORD	GRANA	302	2V	8	3430	2	1	1	1	1	1	2.79
91714	9F16F633922	MERC	CAPRI	302	2V	8	2960	2	1	1	1	1	1	2.47

TABLE 5.8-1 VEHICLE IDENTIFICATION INFORMATION (CONT'D)

EPA NO	VEH IDENT NO	MAKE	MODEL	CID	FS	C	WT	T	AS	CC	EG	AC	EI	AXLE
92101	1Q87D9L546929	CHEV	CAMAR	250	1V	6	3380	2	2	1	1	2	1	3.73
92102	1S87D9L518544	CHEV	CAMAR	250	1V	6	3480	2	2	1	1	1	1	3.73
92103	1Q87D9L526447	CHEV	CAMAR	250	1V	6	3410	2	2	1	1	2	1	3.73
92104	1S87D9L601193	CHEV	CAMAR	250	1V	6	3490	2	2	1	1	1	1	3.73
92105	1S87D9L517116	CHEV	CAMAR	250	1V	6	3550	2	2	1	1	1	1	3.73
92106	1S87D9L561626	CHEV	CAMAR	250	1V	6	3490	2	2	1	1	1	1	3.73
92107	1S87D9L545142	CHEV	CAMAR	250	1V	6	3260	2	2	1	1	2	1	2.73
92401	1B6809Y247386	CHEV	CHEVE	98	2V	4	2130	2	2	1	1	2	1	3.70
92402	1B68E9Y123323	CHEV	CHEVE	98	2V	4	2280	2	2	1	1	1	1	3.70
92403	1B68E9Y138422	CHEV	CHEVE	98	2V	4	2120	2	2	1	1	2	1	3.70
92404	1B6809Y187203	CHEV	CHEVE	98	2V	4	2230	2	2	1	1	1	1	3.70
92405	1B6809Y184216	CHEV	CHEVE	98	2V	4	2130	2	2	1	1	2	1	3.70
92406	1B08E9Y195614	CHEV	CHEVE	98	2V	4	2050	2	2	1	1	2	1	3.70
92407	1B68E9Y112631	CHEV	CHEVE	98	2V	4	2100	2	2	1	1	2	1	3.70
93301	SBC7042015	HONDA	CIVIC	76	2V	4	1750	1	1	2	2	1	2	3.87
93302	SBC7011103	HONDA	CIVIC	76	2V	4	1810	1	1	2	2	1	2	3.87
93303	SBC7012344	HONDA	CIVIC	76	2V	4	1760	1	1	2	2	2	2	3.87
93304	SBA7019800	HONDA	CIVIC	76	2V	4	1700	1	1	2	2	2	2	3.87
93305	SBC7021066	HONDA	CIVIC	76	2V	4	1710	1	1	2	2	1	2	3.87
93306	SBC7004390	HONDA	CIVIC	76	2V	4	1680	1	1	2	2	1	2	3.87
93307	SBC7052630	HONDA	CIVIC	76	2V	4	1700	1	1	2	2	2	2	3.87
95501	A26L620893	SUBAR	SUBAR	97	2V	4	1970	2	1	2	1	2	1	3.70
95502	A66L621524	SUBAR	SUBAR	97	2V	4	2150	2	1	2	1	2	1	3.70
95503	A66L621329	SUBAR	SUBAR	97	2V	4	2190	2	1	2	1	1	1	3.70
95504	A66L619008	SUBAR	SUBAR	97	2V	4	2170	2	1	2	1	2	1	3.70
95505	A66L620899	SUBAR	SUBAR	97	2V	4	2180	2	1	2	1	2	1	3.70
95506	A66L620042	SUBAR	SUBAR	97	2V	4	2190	2	1	2	1	2	1	3.70
95507	A26L315662	SUBAR	SUBAR	97	2V	4	2020	2	1	2	1	2	1	3.70
95601	CLN1498209633	CHEV	LUV	110	2V	4	2460	1	1	2	1	2	2	3.72
95602	CLN1498219047	CHEV	LUV	110	2V	4	2790	1	1	2	1	2	2	3.72
95603	CLN1498301607	CHEV	LUV	110	2V	4	2610	1	1	2	1	2	2	3.72
95604	CLN1498231708	CHEV	LUV	110	2V	4	2620	1	1	2	1	2	2	3.72
95605	CLN1498247781	CHEV	LUV	110	2V	4	2480	1	1	2	1	2	2	3.72
95606	CLN1498289433	CHEV	LUV	110	2V	4	2660	1	1	2	1	2	2	3.72
95701	CCL149Z111307	CHEV	PU1/2	350	4V	8	4460	2	2	1	1	2	1	3.08
95702	CCL149Z163132	CHEV	PU1/2	350	4V	8	3960	2	2	1	1	2	1	2.76
95703	CCL149Z151444	CHEV	PU1/2	350	4V	8	4840	2	2	1	1	1	1	2.73
95704	CCL149J174094	CHEV	PU1/2	350	4V	8	4310	2	2	1	1	1	1	2.56
95705	CCL449Z129376	CHEV	PU1/2	350	4V	8	4240	2	2	1	1	1	1	3.40
95706	CCL449Z102717	CHEV	PU1/2	350	4V	8	4990	2	2	1	1	2	1	3.40

The incentives for recruitment included a U.S. Savings Bond (cash value $37.50), the use of a late model loan car, and a full tank of gas upon return of the participant's vehicle.

The legend for Table 5.8-1 is a follows:

CID - Cubic Inch Displacement
FS - Fuel Metering System
C - No. of Cylinders
WT - Actual Weight
T - Transmission (1 = Manual, 2 = Automatic)
AS - Air System (1 = Yes, 2 = No)
CC - Catalytic Converter (1 = Yes, 2 = No)
EG - EGR System (1 = Yes, 2 = No)
AC - Air Conditioner (1 = Yes, 2 = No)
EI - Electronic Ignition (1 = Yes, 2 = No)
AXLE - Axle Ratio

5.8.4 TEST PROCEDURES

The initial requirement for this test group was to perform two test sequences on each vehicle in the "as-received" condition. Any vehicle which failed the FTP would then undergo restorative maintenance and then be subjected to two additional test sequences. These requirements were changed during the course of the program to eliminate the replicate test sequences.

The EPA specified inertia weight and horsepower settings were changed on five different vehicle types after the test group was initiated. This required one additional test sequence to be performed on twelve vehicles using the corrected settings.

The decision to undergo restorative maintenance was determined by the EPA Project Officer based on the FTP results.

5.8.4.1 Test Sequence

The sequence of tests performed was as follows:

- Idle Test at DEQ test station (Ref. para. 4.3.1)

  Note: This test was performed only during the first "as-received" test sequence.

- Idle Test at HTS facility (Ref. para. 4.3.1)

  Note: This test was not required for the replicate test sequences.

- Federal Test Procedure (FTP) (Ref. para 4.3.3 and 4.3.4)
- 50 MPH Cruise Test (Ref. para. 4.3.8)
- Highway Fuel Economy Test (HFET)(Ref. para. 4.3.6)
- Four Mode Idle Test (Ref. para. 4.3.9)
- Two Mode Test (Ref. para. 4.3.7)
- Diagnostic Inspection (Ref. para. 4.3.2)
- Propane Gain Check (Ref. para. 4.3.10)

5.8.4.2 Restorative Maintenance

The restorative maintenance procedure consisted of tuning the vehicle to manufacturer's specifications and correction of any tampered or inoperative emission related components.

5.8.4.3 Shift Speeds

The shift speeds used for vehicles with manual transmissions were as follows:

YEAR	MAKE/MODEL	SHIFT SPEEDS			
1980	Jeep CJ-5	15	25	34	
*1980	Datsun 210	15	25	40	45
1980	Ford Courier	15	25	40	
1978	VW Dasher	15	25	40	
1979	Honda Civic	15	25	40	
1979	Chevrolet LUV	15	25	40	

* The Datsuns were downshifted from 3rd to 2nd at 186 and 850 seconds of the FTP, and were also downshifted from 5th to 3rd at 295 seconds of the HFET.

5.8.4.4 Inertia Weight and Horsepower Settings

The inertia weight and horsepower settings were provided by EPA and are shown on Table 5.8-7.

5.8.4.5 Test Fuel

Commercial leaded gasoline (regular grade) was used for the Hondas and Subarus, as required by EPA technical direction. Indolene HO was used for all other vehicles.

5.8.5 TEST RESULTS

The average FTP and Highway Fuel Economy Test (HFET) fuel economy results for each of the different types of vehicles are provided on Table 5.8-2. The EPA certification test results are also provided for comparison.

The test data for each of the required tests are provided on the following tables:

TABLE	TITLE
Table 5.8-3	Diagnostic Inspection Results
Table 5.8-4	DEQ & HTS Idle Test Results
Table 5.8-5	Two Mode & 50 MPH Cruise Tests
Table 5.8-6	Four Mode Test Results
Table 5.8-7	FTP & HFET Test Results

Table 5.8-8 contains the maintenance performed on all vehicles which were restored.

The test sequences used for determining the averages specified in Table 5.8-2 are marked with an asterisk on Table 5.8-7. The sequence selected was the initial test unless maintenance or retest was conducted using corrected load settings. In those cases the retest or the maintenance test results were used.

Seven vehicles were not used in determining the averages. The vehicles and the reason for not using them are as follows:

EPA NO.	REASON
00402 00403	Engine Mismatch (140-2V instead of 120-2V)
00503 00504	Horsepower setting requirement changed from 6.6 to 7.3 after test (unable to recruit vehicle for retest).
91301	Horsepower setting requirement changed from 10.2 to 10.4 after test (sample size determined large enough so retest was not necessary).
91705	Unable to satisfactorily repair.
91708	Participant requested return of the vehicle prior to performing required maintenance.

TABLE 5.8-2 AVERAGE FUEL ECONOMY RESULTS

YEAR/TYPE	QTY AVG	IN-USE FTP MPG	EPA CERT. MPG (FTP)	IN-USE (HFET) MPG	EPA CERT. MPG (HFET)
1980 Jeep	6	21.1	21.4	27.4	25.3
1980 Fairmont	7	20.2	20.2	25.7	26.9
1980 Datsun (91 CID)	6	32.6	37.4	45.7	50.8
1980 Datsun (85 CID)	5	30.2	31.0	44.0	43.0
1978 Courier	6	23.4	27.0	33.2	35.7
1980 GM X-Body (6 Cyl.)	6	18.2	19.7	28.1	30.2
1980 GM X-Body (4 Cyl.)	6	22.5	22.3	33.6	35.3
1980 Malibu/Camaro	6	17.0	18.9	23.2	26.0
1978 VW Dasher	6	23.7	23.3	37.4	37.2
1979 Mustang	7	20.3	20.7	28.8	28.7
1979 Pinto/Bobcat	5	21.7	20.7	29.0	28.7
1979 Fairmont/Zephyr	5	19.8	20.4	26.8	28.8
1979 Capri	6	16.3	16.0	22.0	22.9
1979 Granada/Monarch	5	15.5	16.0	21.3	22.9
1979 Camaro	7	16.5	15.2	23.0	21.8
1979 Chevette	7	24.7	25.3	30.8	29.7
1979 Honda	7	27.3	28.2	37.0	36.0
1979 Subaru	7	25.2	25.1	30.4	30.6
1979 LUV Pickup	6	21.4	21.7	31.0	30.6
1979 Chevrolet Pickup	6	12.7	14.0	16.1	17.5

The legends for the tables are as follows:

Legend for Table 5.8-3

MECH ADV	-	Mechanical Advance	NEU	-	Neutral
TOTAL ADV	-	Total Advance	DR	-	Drive
GAIN CK	-	Propane Gain Check	NA	-	Not Applicable
MEAS	-	Measured Value	N/A	-	Not Applicable (Manual Transmission)
SPEC	-	Specification	DEC	-	Decrease

Legend for Tables 5.8-4 through 5.8-6

SEQ - Test Sequence

- IN - Initial Test
- IV - Initial Test Verification
- M1 - 1st Restorative Maintenance
- M2 - 2nd Restorative Maintenance
- MV - Maintenance Verification
- R1 - Retest with corrected load settings

1ST - Initial Idle Test
2500 - High Idle Test (2500 RPM)
2ND - Second Idle Test

HC - Hydrocarbons in ppm (Measurements are in hexane for all readings except for "LAB" readings which are in total hydrocarbons.)
CO - Carbon Monoxide in Percent
NO_x - Oxides of Nitrogen in ppm

RPM - Engine Idle RPM
LAB - Laboratory Analyzers
GARAGE - EPA-75 Garage Analyzer

STA - Status (the three numbers represent the DEQ Pass/Fail status for HC, CO, and RPM respectively. (1 = Pass, 2 = Fail)

Legend for Table 5.8-7

SEQ - Test Sequence
ODOM - Odometer reading
IW - Inertia Weight settings
AHP - Actual Horsepower settings
HC - Hydrocarbon Emissions in grams per mile
CO - Carbon Monoxide Emissions in grams per mile
CO_2 - Carbon Dioxide Emissions in grams per mile
NO_x - Oxides of Nitrogen (uncorrected) Emissions in grams per mile
NO_xC - Oxides of Nitrogen Emissions corrected for humidity in grams per mile
MPG - Miles per gallon calculated by the Carbon Balance Method

TABLE 5.8-3 DIAGNOSTIC INSPECTION RESULTS

EPA NO	IDLE SPEED MEAS	IDLE SPEED SPEC	DWELL MEAS	DWELL SPEC	TIMING MEAS	TIMING SPEC	MECH ADV MEAS	MECH ADV SPEC	TOTAL ADV MEAS	TOTAL ADV SPEC	GAIN CK NEU	GAIN CK DR	PROBLEM AREAS
00101	860	900	NA	NA	+12	+12	19	20	41	38	240	N/A	NONE
00102	1060	900	NA	NA	+11	+12	19	20	39	38	120	N/A	IDLE SPEED
00103	880	900	NA	NA	+11	+12	21	20	41	38	300	N/A	NONE
00104	1010	900	NA	NA	+14	+12	19	20	40	38	240	N/A	IDLE SPEED
00105	1150	900	NA	NA	+14	+12	16	20	40	38	200	N/A	IDLE SPEED
00106	1010	900	NA	NA	+14	+12	23	20	42	38	390	N/A	IDLE SPEED
00201	610	550	NA	NA	+08	+07	12	17	32	30	070	010	NONE
00202	510	550	NA	NA	+06	+07	14	17	33	30	090	DEC	NONE
00203	620	550	NA	NA	+10	+07	20	17	39	30	070	DEC	IDLE SPEED, TIMING
00204	540	550	NA	NA	+10	+07	18	17	35	30	020	DEC	TIMING
00205	550	550	NA	NA	+09	+07	16	17	36	30	060	DEC	NONE
00206	670	550	NA	NA	+06	+07	13	17	32	30	120	020	IDLE SPEED
00207	560	550	NA	NA	+09	+07	18	17	39	30	020	DEC	NONE
00301	680	700	NA	NA	+08	+08	18	16	46	42	DEC	N/A	NONE
00302	760	650	NA	NA	+03	+08		16	35	43	DEC	N/A	IDLE SPEED, TIMING
00303	790	700	NA	NA	+12	+08	20	16	46	42	DEC	N/A	IDLE SPEED, TIMING
00304	840	700	NA	NA	+08	+08	17	16	45	42	DEC	N/A	IDLE SPEED, TIMING
00305	700	700	NA	NA	+10	+08	19	16	47	42	DEC	N/A	NONE
00306	710	700	NA	NA	+09	+08	19	16	41	42	DEC	N/A	NONE
00307	1020	650	NA	NA	+11	+08	21	16	49	43	DEC	040	IDLE SPEED, TIMING
00308	570	650	NA	NA	+12	+08	22	16	55	43	010	010	IDLE SPEED, TIMING
00309	610	650	NA	NA	+10	+08	17	16	59	43	DEC	N/A	NONE
00310	870	650	NA	NA	+11	+08	17	16	45	43	DEC	N/A	IDLE SPEED, TIMING
00311	960	650	NA	NA	+06	+08	12	16	42	42	030	N/A	IDLE SPEED
00401	630	850	NA	NA	+06	+08	19	17	35	35	DEC	N/A	IDLE SPEED
00402	840	800	NA	NA	+06	+06	20	21	41	39	DEC	N/A	NONE
00403	1000	800	NA	NA	+05	+06	18	21	40	39	DEC	N/A	IDLE SPEED
00404	670	850	NA	NA	+07	+08	19	17	36	35	DEC	N/A	IDLE SPEED
00405	570	850	NA	NA	+01	+08	11	17	28	35	DEC	N/A	IDLE SPEED, TIMING
00406	1000	850	NA	NA	+01	+08	10	17	32	35	DEC	N/A	IDLE SPEED, TIMING
00407	700	850	NA	NA	+10	+08	20	17	38	35	DEC	N/A	IDLE SPEED
00408	770	850	NA	NA	+06	+08	17	17	33	35	DEC	N/A	IDLE SPEED

TABLE 5.8-3 DIAGNOSTIC INSPECTION RESULTS

EPA NO	IDLE SPEED MEAS	IDLE SPEED SPEC	DWELL MEAS	DWELL SPEC	TIMING MEAS	TIMING SPEC	MECH ADV MEAS	MECH ADV SPEC	TOTAL ADV MEAS	TOTAL ADV SPEC	GAIN CK NEU	GAIN CK DR	PROBLEM AREAS
00501	630	650	NA	NA	-04	+02	17	16	27	36	030	010	TIMING
00502	660	650	NA	NA	+02	+02	23	16	35	36	080	030	MECH. ADVANCE
00503	690	650	NA	NA	+03	+02	22	16	35	36	070	010	MECH. ADVANCE, AIR FILTER
00504	640	650	NA	NA	000	+02	20	16	35	36	080	030	AIR FILTER
00505	660	650	NA	NA	+01	+02	19	16	30	36	050	020	NONE
00506	610	650	NA	NA	+01	+02	20	16	33	36	040	010	NONE
00507	640	650	NA	NA	+02	+02	26	16	34	36	040	DEC	MECH. ADVANCE
00508	590	650	NA	NA	-05	+02	15	16	26	36	080	030	TIMING
00601	680	650	NA	NA	+08	+10	20	19	30	37	360	110	VACUUM ADVANCE
00602	740	650	NA	NA	+11	+10	18	19	35	37	280	090	IDLE SPEED, AIR FILTER
00603	670	650	NA	NA	+07	+10	15	19	39	37	200	100	TIMING, AIR FILTER
00604	720	650	NA	NA	+11	+10	19	19	40	37	250	080	AIR FILTER
00605	650	650	NA	NA	+12	+10	19	19	31	37	340	090	VACUUM ADVANCE
00606	720	650	NA	NA	+14	+10	23	19	43	37	400	090	TIMING
00701	470	600	NA	NA	+08	+10	14	16	30	34	160	090	IDLE SPEED
00702	460	600	NA	NA	+11	+10	16	16	32	34	170	060	IDLE SPEED
00703	560	600	NA	NA	+10	+10	17	16	31	34	010	DEC	EGR, AIR FILTER
00704	600	600	NA	NA	+06	+10	11	16	35	34	DEC	DEC	TIMING
00705	640	600	NA	NA	+12	+10	16	16	32	34	100	030	NONE
00706	670	600	NA	NA	+05	+10	14	16	28	34	140	020	IDLE SPEED, TIMING
80201	910	925	38	47	-02	-03	09	13	09	19	090	N/A	DWELL, VAC. ADVANCE, EGR
80202	1020	925	53	47	-03	-03	24	13	42	19	220	N/A	IDLE SPD , DWELL, MECH. ADV.
80203	950	925	50	47	-01	-03	16	13	25	19	090	N/A	DWELL
80204	780	925	48	47	000	-03	23	13	23	19	130	N/A	IDLE SPD , TIMING, MECH. ADV.
80205	880	925	54	47	-02	-03	13	13	19	19	290	N/A	DWELL
80206	940	925	48	47	-01	-03	17	13	22	19	090	N/A	NONE

TABLE 5.8-3 DIAGNOSTIC INSPECTION RESULTS

EPA NO	IDLE SPEED MEAS	IDLE SPEED SPEC	DWELL MEAS	DWELL SPEC	TIMING MEAS	TIMING SPEC	MECH ADV MEAS	MECH ADV SPEC	TOTAL ADV MEAS	TOTAL ADV SPEC	GAIN CK NEU	GAIN CK DR	PROBLEM AREAS
91301	730	800	NA	NA	+19	+20	21	22	45	50	140	080	NONE
91302	890	800	NA	NA	+16	+20	18	22	42	50	220	060	IDLE SPEED, TIMING
91303	700	800	NA	NA	+20	+20	23	22	46	50	DEC	DEC	IDLE SPEED
91304	620	600	NA	NA	+20	+20	22	22	45	50	020	DEC	EGR VAC HOSE
91305	880	800	NA	NA	+19	+20	21	22	44	50	040	DEC	EGR
91306	810	600	NA	NA	+21	+20	23	22	50	50	020	DEC	IDLE SPEED
91307	770	800	NA	NA	+17	+20	23	22	46	50	130	040	TIMING
91308	780	800	NA	NA	+14	+20	19	22	42	50	040	010	TIMING
91309	830	800	NA	NA	+23	+20	25	22	44	50	140	030	TIMING
91310	800	800	NA	NA	+19	+20	21	22	45	50	020	DEC	NONE
91311	790	800	NA	NA	+20	+20	22	22	45	50	070	010	PCV
91312	820	800	NA	NA	+21	+20	22	22	48	50	120	040	NONE
91313	840	800	NA	NA	+22	+20	24	22	45	50	DEC	DEC	NONE
91314	790	800	NA	NA	+18	+20	21	22	47	50	DEC	DEC	NONE
91315	780	800	NA	NA	+17	+20	21	22	52	50	030	DEC	TIMING
91316	870	800	NA	NA	+19	+20	20	22	40	50	DEC	DEC	VAC. ADV., SPARK PLUG, EGR
91317	730	800	NA	NA	+19	+20	20	22	44	50	020	010	NONE
91318	710	800	NA	NA	+23	+20	23	22	31	50	DEC	DEC	IDLE SPD, TIMING, VAC. ADV.
91701	490	600	NA	NA	+06	+08	18	19	51	47	120	030	IDLE SPEED, EGR
91702	550	600	NA	NA	+06	+08	19	19	48	47	100	030	EGR
91703	570	600	NA	NA	+07	+08	17	19	49	47	100	020	NONE
91705	590	600	NA	NA	+08	+08	08	19	29	47	160	040	MECH. ADV., EGR
91706	530	600	NA	NA	+07	+08	18	19	51	47	160	040	IDLE SPEED
91707	490	600	NA	NA	+05	+08	17	19	49	47	020	DEC	IDLE SPEED, TIMING
91708	620	600	NA	NA	+08	+08	20	19	50	47	DEC	DEC	NONE
91709	600	600	NA	NA	+01	+08	15	19	46	47	360	070	TIMING, VAC. HOSE
91710	560	600	NA	NA	+07	+08	19	19	53	47	120	020	NONE
91711	580	600	NA	NA	+11	+08	24	19	55	47	120	020	TIMING
91712	580	600	NA	NA	+08	+08	20	19	53	47	DEC	DEC	NONE
91713	610	600	NA	NA	+06	+08	15	19	41	47	080	020	NONE
91714	540	600	NA	NA	+07	+08	17	19	50	47	160	070	NONE

TABLE 5.8-3 DIAGNOSTIC INSPECTION RESULTS

EPA NO	IDLE SPEED MEAS	IDLE SPEED SPEC	DWELL MEAS	DWELL SPEC	TIMING MEAS	TIMING SPEC	MECH ADV MEAS	MECH ADV SPEC	TOTAL ADV MEAS	TOTAL ADV SPEC	GAIN CK NEU	GAIN CK DR	PROBLEM AREAS
92101	610	675	NA	NA	+08	+08	19	19	38	41	440	070	AIR FILTER
92102	570	675	NA	NA	+07	+08	18	19	38	41	DEC	DEC	IDLE SPD, SPK. PLUG, FILTER
92103	630	675	NA	NA	+06	+08	17	19	39	41	070	010	EGR
92104	630	675	NA	NA	+13	+08	23	19	42	41	100	DEC	TIMING, AIR FILTER
92105	630	675	NA	NA	+11	+08	23	19	45	41	250	030	TIMING
92106	540	675	NA	NA	+09	+08	19	19	42	41	DEC	DEC	IDLE SPEED
92107	630	675	NA	NA	+06	+08	18	19	38	41	260	020	NONE
92401	810	750	NA	NA	+14	+18	17	22	43	49	050	010	TIMING
92402	710	750	NA	NA	+24	+18	31	22	48	49	170	040	TIMING
92403	620	750	NA	NA	+16	+18	20	22	43	49	DEC	DEC	IDLE SPEED
92404	770	750	NA	NA	+19	+18	24	22	45	49	150	050	NONE
92405	770	750	NA	NA	+18	+18	23	22	48	49	020	DEC	EGR, AIR FILTER
92406	870	750	NA	NA	+16	+18	21	22	44	49	030	DEC	IDLE SPEED
92407	730	750	NA	NA	+20	+18	21	22	37	49	DEC	DEC	NONE
93301	830	700	55	52	-03	+02	14	NA	NA	NA	080	N/A	IDLE SPEED, DWELL, TIMING
93302	1010	700	50	52	+09	+02	28	NA	NA	NA	900	N/A	IDLE SPEED, TIMING
93303	740	700	52	52	+02	+02	17	NA	NA	NA	220	N/A	NONE
93304	690	700	54	52	+02	+02	22	NA	NA	NA	080	N/A	NONE
93305	860	700	54	52	+01	+02	17	NA	NA	NA	230	N/A	IDLE SPEED
93306	1020	700	54	52	+01	+02	14	NA	NA	NA	120	N/A	IDLE SPEED
93307	720	700	51	52	+01	+02	17	NA	NA	NA	230	N/A	NONE
95501	1080	800	NA	NA	+06	+08	19	23	NA	NA	DEC	DEC	IDLE SPEED
95502	760	800	NA	NA	+09	+08	23	23	NA	NA	DEC	DEC	NONE
95503	750	800	NA	NA	+08	+08	24	23	NA	NA	090	020	NONE
95504	1220	800	NA	NA	+10	+08	21	23	NA	NA	100	010	IDLE SPEED
95505	940	800	NA	NA	+07	+08	21	23	NA	NA	DEC	DEC	IDLE SPEED, AIR FILTER
95506	990	800	NA	NA	+07	+08	27	23	NA	NA	060	010	IDLE SPEED
95507	920	800	NA	NA	+07	+08	19	23	NA	NA	050	010	IDLE SPEED

TABLE 5.8-3 DIAGNOSTIC INSPECTION RESULTS

EPA NO	IDLE SPEED MEAS	IDLE SPEED SPEC	DWELL MEAS	DWELL SPEC	TIMING MEAS	TIMING SPEC	MECH ADV MEAS	MECH ADV SPEC	TOTAL ADV MEAS	TOTAL ADV SPEC	GAIN CK NEU	GAIN CK DR	PROBLEM AREAS
95601	720	800	49	52	+08	+06	28	16	35	28	DEC	N/A	DWELL, MECH. ADV, AIR FILTER
95602	1030	800	56	52	+08	+06	18	16	33	28	010	N/A	IDLE SPEED, DWELL
95603	910	800	52	52	+05	+06	13	16	30	28	040	N/A	IDLE SPEED
95604	910	800	51	52	+06	+06	12	16	34	28	DEC	N/A	IDLE SPEED
95605	930	800	57	52	+01	+06	11	16	21	28	030	N/A	IDLE SPEED, TIMING, DWELL
95606	1030	800	56	52	000	+06	13	16	24	28	040	N/A	IDLE SPEED, TIMING, DWELL
95701	530	500	NA	NA	+10	+08	25	23	41	35	170	070	NONE
95702	630	500	NA	NA	+09	+08	26	23	45	35	200	040	IDLE SPEED
95703	610	500	NA	NA	+09	+08	24	23	30	35	080	010	IDLE SPEED
95704	570	500	NA	NA	+09	+08	25	23	46	35	050	030	IDLE SPEED
95705	520	500	NA	NA	+06	+08	25	23	39	35	070	030	NONE
95706	590	500	NA	NA	+01	+08	16	23	29	35	140	040	IDLE SPEED, TIMING

TABLE 5.8-4 DEQ & HTS IDLE TEST RESULTS

		DEQ IDLE TEST									HTS IDLE TEST											
		HC			CO			RPM			HC			CO			NOX			RPM	
EPA NO	SEQ	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND	STA	1ST	2500	2ND	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND
										* 1980 JEEP *											
00101	IN	10	15	25	.0	.0	.0	850	850	111	120	30	110	.0	.1	.0				880	890
00102	IN	30	25	35	.0	.0	.0	1010	1030	111	30	20	20	.0	.0	.0				1070	1010
00103	IN	25	20	30	.0	.1	.0	900	900	111	30	10	30	.0	.0	.0				850	890
00104	IN	35	40	35	.0	.2	.0	1000	1000	111	50	20	30	.0	.1	.0				1060	1060
00105	IN	20	25	30	.0	.0	.0	1200	1200	111	60	30	20	.0	.0	.0				1150	1170
00106	IN	35	15	20	.0	.0	.0	1100	1100	111	40	10	30	.0	.0	.0				1000	1040
										* 1980 FAIRMONT *											
00201	IN	120	20	25	.0	.0	.0	900	900	111	10	10	0	.0	.0	.0	90	10	120	870	900
00202	IN	35	35	30	.0	.0	.0	800	800	111	20	20	10	.0	.4	.0	80	32	80	760	720
00203	IN	170	55	30	.2	.0	.1	900	900	111	10	20	10	.0	.0	.0	50	26	50	1000	960
00204	IN	20	30	25	.0	.0	.0	800	800	111	10	20	20	.1	.0	.2	20	29	40	780	790
00205	IN	20	20	15	.1	.1	.1	750	750	111	10	10	10	.0	.0	.1	70	33	60	760	780
00206	IN	30	50	30	.0	.0	.0	1000	1000	111	20	10	10	.0	.0	.0	80	8	80	900	940
00207	IN	20	65	25	.0	.0	.0	850	850	111	20	20	10	.0	.0	.0	70	10	70	910	860
										* 1980 DATSUN (91 CID) *											
00302	IN	435	100	400	5.4	.1	4.9	750	800	221	340	40	330	3.5	.1	4.4	100	18	120	710	780
00307	IN	290	75	80	1.6	.0	.7	1050	1100	121	60	20	60	.3	.0	.2				1010	1030
00308	IN	115	55	130	1.3	.1	1.2	750	750	121	500	80	90	1.7	.0	.4				730	690
00309	IN	335	100	240	1.8	.1	1.5	850	850	221	20	20	40	.0	.0	.2				760	790
00310	IN	275	90	285	1.3	.2	1.3	850	850	221	90	30	270	.3	.0	1.0				850	870
00311	IN	205	15	40	1.1	.1	.0	975	975	111	30	20	30	.0	.0	.0				970	990

TABLE 5.8-4 DEQ & HTS IDLE TEST RESULTS (CONT'D)

		DEQ IDLE TEST									HTS IDLE TEST										
		HC			CO			RPM			HC			CO			NOX			RPM	
EPA NO	SEQ	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND	STA	1ST	2500	2ND	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND
										* 1980 DATSUN (85 CID) *											
00301	IN	45	35	40	.0	.0	.0	800	800	111	40	20	30	.0	.0	.0	40	12	50	620	670
00303	IN	115	60	70	1.6	.1	2.7	800	800	121	310	30	330	2.3	.0	1.8	80	12	80	830	840
00304	IN	380	55	230	3.6	.5	3.9	800	800	221	310	60	320	3.4	.0	3.1	100	26	80	850	880
00305	IN	460	160	535	2.8	1.6	2.9	800	800	221	430	60	440	2.9	.0	2.5	80	23	80	680	730
00306	IN	430	90	375	3.6	.0	2.9	700	700	221	360	60	420	2.1	.0	1.7	80	20	70	690	720
										* 1980 COURIER *											
00401	IN	40	30	20	.7	1.0	.0	700	1600	111	10	10	10	.0	.0	.0	100	8	40	700	780
00402	IN	335	80	140	6.9	.1	5.8	825	825	121	440	30	430	5.3	.1	6.2				870	870
00402	M1										220	30	120	1.0	.0	.6				830	890
00403	IN	130	30	75	2.9	.1	2.1	950	950	121	20	10	20	.0	.1	.0				1020	1030
00403	M1										10	10	10	.1	.0	.0				830	840
00404	IN	65	35	45	.8	1.7	.1	600	600	111	30	20	30	.0	.0	.0				640	660
00405	IN	105	35	85	1.6	.6	1.5	1100	1100	121	90	30	80	.7	.3	1.0				570	580
00405	M1										30	40	20	.1	.0	.0				860	870
00406	IN	50	60	35	1.6	2.2	.6	1025	1025	111	20	60	20	.1	1.5	.0				960	1000
00406	M1										30	60	30	.0	.7	.0				800	830
00407	IN	35	20	15	.5	.8	.0	675	675	111	40	30	30	.0	.0	.0				970	690
00408	IN	30	70	30	.0	2.0	.0	700	700	111	40	50	30	.0	.3	.0				760	770
										* 1980 GMX BODY (6 CYL.) *											
00501	IN	25	60	30	.0	2.0	.0	725	725	111	20	20	20	.0	.0	.0	80	13	80	740	730
00501	R1										10	20	10	.0	.0	.0				690	700
00502	IN	30	245	35	.0	3.6	.1	850	850	111	10	60	10	.0	1.4	.0	80	10	80	750	790
00502	R1										10	20	10	.0	.0	.0				770	770
00503	IN	25	35	25	.0	.0	.0	850	850	111	30	30	10	.3	.5	.0	90	21	90	780	830
00504	IN	20	30	25	.0	.0	.0	700	750	111	10	20	0	.0	.0	.0	80	12	70	710	690
00505	IN	20	40	25	.1	.0	.0	800	800	111	20	30	20	.0	.1	.0				780	780
00506	IN	20	30	25	.0	.0	.0	775	775	111	10	20	10	.0	1.7	.0				790	780
00507	IN	20	20	20	.0	.0	.0			111	10	20	10	.0	.0	.0				820	810
00508	IN	25	10	0	.0	.0	.0			111	10	10	10	.0	.0	.0				710	730

TABLE 5.8-4 DEQ & HTS IDLE TEST RESULTS (CONT'D)

		DEQ IDLE TEST									HTS IDLE TEST										
		HC			CO			RPM			HC			CO			NOX			RPM	
EPA NO	SEQ	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND	STA	1ST	2500	2ND	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND
									* 1980 GMX BODY (4 CYL.) *											
00601	IN	20	35	50	.0	.0	.0	1025	1025	111	20	20	20	.0	.1	.0	60	17	60	820	890
00602	IN	30	25	60	.0	.0	.0	850	850	111	10	10	10	.0	.0	.0				860	900
00603	IN	20	25	20	.0	.0	.0	850	850	111	60	20	40	.0	.1	.0				750	820
00604	IN	20	35	30	.0	.0	.0	950	950	111	30	30	50	.0	.1	.0				810	850
00605	IN	5	15	0	.0	.0	.0	650	650	111	20	10	20	.0	.0	.0				740	770
00606	IN	30	35	40	.0	.0	.0	850	850	111	10	10	10	.0	.0	.0				870	900
									* 1980 MALIBU/CAMARO *											
00701	IN	20	15	25	.0	.0	.0	700	700	111	80	10	30	.0	.0	.0				530	620
00702	IN	30	25	30	.0	.0	.0	650	650	111	130	40	80	.0	.0	.0				590	580
00703	IN	20	25	25	.0	.0	.0	800	800	111	10	10	10	.0	.0	.0				800	830
00704	IN	15	0	5	.0	.0	.0			111	10	10	10	.0	.0	.0				830	850
00705	IN	25	25	25	.0	.0	.0	950	950	111	20	10	20	.0	.0	.0				840	890
00706	IN	25	35	35	.0	.0	.0	875	900	111	20	10	20	.0	.0	.0				880	880
									* 1978 VW DASHER *											
80201	IN	120	65	130	2.1	.7	2.2	1000	1000	111	70	50	100	1.4	.6	1.9	130	21	140	920	930
80201	M1										40	30	50	.2	.1	.2	120	25	120	940	940
80202	IN	50	50	95	1.4	.9	1.4	1100	1100	111	30	30	50	1.1	.5	1.2	160	23	160	1060	1060
80203	IN	85	90	125	2.3	1.2	2.2	1100	1100	111	70	50	80	1.8	1.0	1.8	140	22	140	1020	1060
80203	M1										90	50	80	1.1	.7	1.1	120	21	130	960	960
80204	IN	135	140	155	1.6	.4	1.7	800	800	111	90	40	100	1.7	.6	1.7	120	20	120	850	830
80204	M1										80	50	90	1.6	.7	1.7	120	22	140	930	930
80205	IN	65	55	100	2.1	1.4	2.0	1100	1100	111	140	40	50	1.6	1.4	1.7	110	18	120	940	900
80205	M1										80	30	80	1.5	1.2	1.6	120	20	120	1040	1010
80206	IN	110	70	125	3.5	1.3	3.3	900	900	121	70	30	60	2.1	.6	2.5	100	15	110	920	970
80206	M1										60	30	60	1.4	.4	1.6	100	16	110	930	900

TABLE 5.8-4 DEQ & HTS IDLE TEST RESULTS (CONT'D)

		DEQ IDLE TEST									HTS IDLE TEST										
		HC			CO			RPM			HC			CO			NOX			RPM	
EPA NO	SEQ	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND	STA	1ST	2500	2ND	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND
											* 1979 MUSTANG *										
91301	IN	125	70	60	.4	1.1	.1	900	900	111	50	40	50	.0	.6	.0	90	32	80	900	880
91307	IN	35	95	220	.0	3.6	.1	1000	1000	111	240	300	30	.0	.0	.0				900	930
91307	M1										10	120	10	.1	.0	.2				1040	1040
91310	IN	150	745	210	3.2	9.4	3.5	850	900	221	150	80	140	2.9	.0	3.2				980	1000
91310	M1										20	50	20	.0	.0	.0				950	970
91311	IN	125	40	90	1.9	.2	1.1	950	950	121	70	190	80	.1	.0	1.2				970	970
91314	IN	210	440	420	5.4	8.0	4.9	950	950	121	210	230	200	2.9	.0	3.6				970	990
91314	M1										20	60	20	.3	.0	.1				1070	1080
91315	IN	155	970	300	3.3	9.1	3.2	500	500	221	220	80	180	2.6	.9	3.3				1020	1000
91315	M1										100	20	30	.5	.1	.4				1010	1010
91317	IN	175	470	245	4.5	5.5	5.2	800	900	221	680	50	600	1.1	.0	2.1				940	930
91317	M1										80	40	50	.0	.0	.0				850	850
91317	M2										30	30	20	.0	.1	.0				1060	1090
91318	IN	220	170	185	1.8	.1	1.3	950	950	221	210	90	200	4.3	.0	4.3				880	890
91318	M1										50	80	20	.0	.0	.0				1070	1080
											* 1979 PINTO/BOBCAT *										
91306	IN	205	140	215	4.7	.1	4.9	1100	1100	221	190	220	190	4.4	.0	4.5	130	11	130	1060	1070
91306	M1										20	70	10	.0	.0	.0	60	10	50	730	760
91308	IN	95	90	50	1.3	.6	.2	950	975	111	90	270	60	1.0	.0	1.0				960	950
91309	IN	65	75	45	.8	1.1	.1	800	800	111	80	40	30	.2	.0	.0				1040	1070
91312	IN	100	185	85	1.0	5.8	.4	1000	1000	111	40	220	30	.8	6.5	.0				1070	1010
91312	M1										10	150	10	.0	.0	.0				1070	1080
91316	IN	200	140	210	3.9	1.6	3.5	1200	1200	222	170	50	170	3.9	.0	3.9				1200	1210
91316	M1										80	60	40	.1	.0	.0				1080	1100

TABLE 5.8-4 DEQ & HTS IDLE TEST RESULTS (CONT'D)

		DEQ IDLE TEST									HTS IDLE TEST										
		HC			CO			RPM			HC			CO			NOX			RPM	
EPA NO	SEQ	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND	STA	1ST	2500	2ND	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND
											* 1979 FAIRMONT/ZEPHYR *										
91302	IN	30	40	50	.0	.0	.0	1150	1150	112	100	130	10	.0	.0	.0	110	12	110	1070	1120
91302	R1										30	140	30	.0	.0	.0				1150	1190
91303	IN	260	190	330	7.6	2.8	5.6	800	900	221	350	110	320	8.0	.0	8.0	140	14	130	900	900
91303	M1										60	80	60	.3	.0	.5	90	14	100	1010	1010
91304	IN	195	190	215	3.1	1.0	2.0	725	750	121	260	20	200	3.2	.0	3.0	120	44	120	730	710
91304	M1										30	90	20	.0	.0	.0	60	10	60	710	690
91305	IN	110	90	110	4.6	3.8	4.6	1125	1150	121	130	30	120	2.3	.0	2.4	120	36	140	1200	1190
91305	M1										20	80	10	.0	.0	.0	100	12	110	1050	1060
91313	IN	295	170	265	7.3	4.0	6.5	1100	1080	221	250	210	270	7.5	2.2	7.7				1150	1150
91313	M1										60	50	80	.1	.3	.4				1040	1060
											* 1979 CAPRI *										
91706	IN	40	100	35	.0	.0	.0	700	700	111	30	130	30	.0	.0	.0				750	810
91707	IN	35	140	45	.0	.0	.0	700	700	111	50	170	50	.0	.0	.0				680	750
91708	IN	285	245	315	7.2	2.2	6.2	900	900	221	360	130	310	5.6	.5	5.4				910	960
91709	IN	85	175	90	.0	.4	.0	700	700	111	90	120	100	.0	.0	.0				690	760
91710	IN	55	285	70	.0	.0	.0	800	800	111	60	200	50	.0	.0	.0				800	840
91711	IN	35	200	35	.0	.0	.0	800	850	111	290	250	30	.1	.0	.0				790	820
91711	M1										30	170	30	.0	.0	.0				880	920
91714	IN	35	160	80	.0	.1	.0	770	770	111	30	120	20	.0	.0	.0				760	770
											* 1979 GRANADA/MONARCH *										
91701	IN	40	65	35	.0	.0	.0	900	900	111	130	200	90	.0	.0	.0	80	22	120	620	700
91702	IN	115	100	135	1.9	.8	1.6	850	850	121	80	30	30	.0	.0	.0	80	82	120	700	750
91703	IN	50	50	30	.0	.0	.0	850	900	111	50	90	30	.0	.0	.0				820	860
91705	IN	60	30	55	.0	.0	.0	800	800	111	80	20	80	.0	.0	.0				760	770
91705	M1										90	10	60	.0	.0	.0				780	790
91712	IN	55	95	45	.8	.1	.0	850	850	111	90	200	20	.0	.0	.0				920	980
91712	M1										60	190	40	.0	.0	.0				970	970
91713	IN	25	35	40	.0	.1	.0	900	900	111	70	50	30	.0	.0	.0				820	880

TABLE 5.8-4 DEQ & HTS IDLE TEST RESULTS (CONT'D)

		DEQ IDLE TEST									HTS IDLE TEST										
		HC			CO			RPM			HC			CO			NOX			RPM	
EPA NO	SEQ	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND	STA	1ST	2500	2ND	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND
											* 1979 CAMARO *										
92101	IN	25	65	30	.0	1.0	.0	1500	1250	112	20	40	20	.0	.0	.0	80	12	80	1020	1040
92102	IN	280	150	300	4.1	2.1	3.4	800	800	221	390	130	290	2.6	1.0	2.8	110	16	110	690	760
92102	M1										50	30	30	.0	.0	.0	80	13	40	1010	1030
92103	IN	170	60	200	2.2	.1	1.6	900	900	121	270	50	210	.7	.4	1.3	100	33	110	900	950
92103	M1										50	30	30	.0	.0	.0	80	12	90	830	850
92104	IN	185	100	225	1.3	.0	.7	1000	1000	111	230	140	190	.4	.9	.5	100	20	90	1050	1050
92104	M1										90	40	80	.0	.0	.1	80	13	50	970	980
92105	IN	40	30	95	.0	.0	.0	1300	1300	112	130	50	40	.0	.0	.0	120	12	120	1180	1190
92106	IN	390	175	515	5.7	1.2	5.3	850	850	221	340	180	330	4.7	2.8	5.6	110	15	120	770	780
92106	M1										50	20	150	.0	.0	.4	50	14	50	980	1010
92106	M2										20	20	20	.0	.0	.0	120	16	120	940	1000
92107	IN	40	30	40	.0	.0	.0	1080	1080	111	20	10	20	.0	.0	.0	100	14	100	1010	1050
											* 1979 CHEVETTE *										
92401	IN	105	75	50	1.2	.1	.8	1000	1000	111	60	100	120	.2	1.1	.9	70	14	110	980	1030
92401	R1										120	90	120	.6	.6	.8				970	980
92402	IN	15	30	25	.0	.2	.0	1000	1050	111	10	10	10	.0	.0	.0	100	36	110	930	950
92402	R1										30	20	30	.0	.0	.0	120	26	120	930	960
92403	IN	350	170	345	4.2	1.2	5.1	750	750	221	310	140	330	3.3	1.0	4.0	140	20	140	770	780
92403	M1										40	70	50	.0	.3	.0	90	26	130	930	870
92403	R1										120	160	90	.6	1.3	1.0	180	66	120	1260	920
92404	IN	35	40	150	.0	.0	.0	1050	1050	111	30	30	30	.0	.0	.0	80	14	80	1030	1020
92404	R1										60	90	80	.0	.8	.1	80	16	100	950	970
92405	IN	120	45	140	2.6	.2	2.2	1100	1100	121	120	90	120	1.5	1.0	1.6	80	36	90	970	1060
92405	M1										100	60	100	.2	.3	.4	100	41	100	930	980
92405	R1										80	100	120	.3	1.0	.4				950	1030
92406	IN	90	50	75	1.0	.0	.9	1100	1100	111	70	10	60	1.0	.0	1.1	120	16	110	1140	1150
92406	R1										110	50	90	1.0	.6	.9				1110	1110
92407	IN	190	60	50	2.5	.1	1.7	900	900	12[illegible]	170	100	170	1.2	.8	1.7	160	66	170	910	930
92407	R1										60	90	50	.1	1.1	.0				970	840

TABLE 5.8-4 DEQ & HTS IDLE TEST RESULTS (CONT'D)

		DEQ IDLE TEST									HTS IDLE TEST										
		HC			CO			RPM			HC			CO			NOX			RPM	
EPA NO	SEQ	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND	STA	1ST	2500	2ND	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND
											* 1979 HONDA *										
93301	IN	80	65	80	.1	.6	.1	800	800	111	70	30	70	.1	.6	.1	80	9	90	870	880
93302	IN	60	50	50	.0	.2	.1	1150	1150	111	80	30	70	.1	.3	.1	50	13	60	1020	1080
93303	IN	95	45	125	.1	.4	.1	900	900	111	110	40	110	.1	.4	.1	40	8	40	860	910
93304	IN	150	70	130	.8	.5	.6	1100	1000	111	140	40	120	.6	.3	.5	60	8	60	790	790
93305	IN	65	30	75	.1	.2	.1	1050	1050	111	80	30	80	.1	.3	.1	40	7	40	950	970
93306	IN	50	45	65	.3	.6	.4	1200	1200	111	40	30	40	.3	.6	.3	70	6	70	1140	1160
93307	IN	75	60	80	.1	.4	.1	1000	1000	111	70	30	60	.1	.3	.1	50	7	50	860	900
											* 1979 SUBARU *										
95501	IN	160	95	125	5.5	2.6	4.6	1000	1000	121	100	20	90	4.9	.5	5.0	130	18	130	1030	1040
95501	M1										50	10	60	.8	.2	1.0	110	22	110	870	860
95501	R1										30	10	20	.4	.2	.5				990	1030
95502	IN	70	90	75	2.1	.8	2.3	700	700	121	80	20	60	1.9	.2	1.6	120	18	120	900	910
95502	R1										90	20	60	1.6	.2	1.6				860	900
95503	IN	30	35	60	.9	1.6	.7	1100	1100	111	50	20	30	.3	.1	.3	120	14	110	900	880
95504	IN	30	15	25	.5	.0	.5	1300	1350	112	30	20	20	.4	.1	.4	110	14	120	1460	1240
95505	IN	85	40	85	3.0	.5	2.7	950	950	121	90	30	60	2.0	.3	1.6	120	20	130	890	920
95506	IN	105	55	90	2.8	1.1	1.8	1000	1000	111	50	10	30	.6	.2	.8				960	980
95507	IN	115	50	140	2.7	.6	2.9	900	900	121	100	20	50	1.4	.2	.8				940	970
											* 1979 LUV PICKUP *										
95601	IN	60	65	45	.7	.4	.6	775	775	111	50	30	30	.9	.3	.7				750	810
95601	M1										50	30	40	.3	.3	.4				800	850
95602	IN	40	25	35	1.0	.5	.7	1050	1050	111	70	20	50	.7	.5	.7				980	1040
95603	IN	55	40	45	.7	.2	.5	900	900	111	50	20	40	.6	.2	.4				880	920
95603	M1										80	30	70	.4	.3	.3				780	820
95604	IN	40	20	25	.9	.3	.7	900	900	111	50	20	40	.6	.3	.6				870	920
95604	M1										50	20	50	.5	.3	.4				800	810
95605	IN	30	20	30	.4	.2	.5	1000	1000	111	50	20	30	.6	.4	.5				880	960
95606	IN	45	35	45	.2	.2	.3	1100	1100	111	50	20	40	.4	.3	.6				1000	1030

TABLE 5.8-4 DEQ & HTS IDLE TEST RESULTS (CONT'D)

		DEQ IDLE TEST									HTS IDLE TEST										
		HC			CO			RPM			HC			CO			NOX			RPM	
EPA NO	SEQ	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND	STA	1ST	2500	2ND	1ST	2500	2ND	1ST	2500	2ND	1ST	2ND
										* 1979 CHEV. PICKUP *											
95701	IN	55	20	55	.0	.0	.0	700	700	111	210	20	130	.0	.0	.0				620	670
95702	IN	20	25	30	.0	.0	.0	900	900	111	60	20	30	.0	.0	.0				840	880
95703	IN	25	25	50	.0	.0	.2	800	800	111	80	20	60	.0	.1	.1				790	790
95704	IN	30	20	25	.0	.0	.0	700	700	111	100	30	80	.0	.0	.0				740	750
95704	M1										140	40	80	.0	.0	.0				740	740
95705	IN	465	80	190	.3	.1	1.3	725	725	211	80	20	50	.0	.0	.0				710	710
95706	IN	15	20	15	.0	.0	.0	700	700	111	50	20	30	.0	.0	.0				740	720

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS

		--TWO MODE (30MPH)--					--TWO MODE (IDLE)--					----50 MPH CRUISE---				
		-----LAB----			GARAGE		----LAB----			GARAGE		-----LAB----			GARAGE	
EPA NO	SEQ	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO
							* 1980 JEEP *									
00101	IN	125	.0	356	20	.0	119	.0	232	20	.0	63	.0	631	10	.0
00102	IN	125	.0	369	20	.0	45	.0	112	20	.0	88	.0	827	20	.0
00103	IN	97	.0	526	20	.0	79	.0	72	10	.0	57	.0	967	20	.0
00103	IV	112	.0	449	20	.0	103	.0	77	20	.0	54	.0	695	20	.0
00104	IN	155	.0	571	20	.0	100	.0	105	20	.0	79	.0	715	20	.0
00105	IN	149	.0	638	20	.0	79	.0	182	10	.0	106	.0	793	20	.0
00106	IN	161	.0	743	20	.0	339	.0	92	50	.0	210	.0	735	40	.0
							* 1980 FAIRMONT *									
00201	IN	100	.0	203	20	.0	45	.0	140	10	.0	51	.0	215	20	.0
00201	IV	79	.0	223	20	.0	45	.0	113	20	.0	54	.0	270	20	.0
00202	IN	60	.0	108	10	.0	18	.0	41	0	.0	57	.0	133	20	.0
00202	IV	94	.0	178	20	.0	57	.0	130	20	.0	51	.0	190	20	.0
00203	IN	63	.0	213	20	.0	21	.0	58	10	.0	48	.0	315	20	.0
00203	IV	67	.0	255	5	.0	33	.0	96	0	.0	204	.0	275	30	.0
00204	IN	108	.0	273	40	.0	72	.0	101	20	.0	68	.0	290	30	.0
00205	IN	84	.0	221	30	.0	32	.0	66	20	.0	47	.0	260	20	.0
00206	IN	88	.0	158	20	.0	42	.0	178	0	.0	91	.0	208	20	.0
00207	IN	171	.0	285	20	.0	106	.0	66	10	.0	100	.2	287	20	.0
							* 1980 DATSUN (91 CID) *									
00302	IN	338	.0	1038	20	.0	5145	3.3	44	300	3.2	145	.0	1272	10	.0
00302	IV	270	.0	1073	20	.0	4162	2.7	61	230	2.6	166	.0	1145	10	.0
00307	IN	68	.0	1237	20	.0	301	.0	86	30	.0	78	.0	1287	20	.0
00308	IN	78	.0	1200	20	.0	356	.0	86	30	.0	81	.0	1661	20	.0
00309	IN	114	.0	1329	40	.0	277	.0	140	30	.0	84	.0	1394	20	.0
00310	IN	124	.0	1454	10	.0	371	.0	103	10	.0	277	.0	1633	10	.0
00311	IN	124	.0	1170	30	.0	243	.0	101	20	.0	114	.0	1362	20	.0

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS (CONT'D)

		--TWO MODE (30MPH)--					--TWO MODE (IDLE)--					----50 MPH CRUISE---				
		-----LAB-----			GARAGE		----LAB----			GARAGE		-----LAB----			GARAGE	
EPA NO	SEQ	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO
							* 1980 DATSUN (85 CID) *									
00301	IN	149	.0	957	20	.0	275	.0	73	20	.0	125	.0	1117	20	.0
00303	IN	79	.0	1164	10	.0	299	.0	58	20	.0	76	.0	1416	20	.0
00304	IN	130	.0	1830	0	.0	264	.0	113	0	.1	111	.0	2124	0	.0
00305	IN	115	.0	1535	20	.0	1189	.9	48	120	.8	67	.0	1884	10	.0
00306	IN	180	.0	1368	40	.0	1832	.9	51	170	.9	76	.0	1819	20	.0
							* 1980 COURIER *									
00401	IN	203	.0	383	10	.0	371	.0	84	10	.0	139	.0	642	10	.0
00401	IV	197	.0	385	40	.0	384	.0	86	50	.0	114	.0	684	40	.0
00402	IN	207	.1	60	20	.2	2147	3.0	2	100	2.6	434	.5	401	40	.6
00402	M1	125	.0	326	10	.1	100	.0	52	10	.0	293	.4	980	20	.6
00402	MV	235	.0	239	20	.1	91	.0	40	10	.0	171	.2	289	20	.2
00403	IN	125	.0	371	20	.0	776	1.6	10	40	1.6	91	.0	526	20	.1
00403	M1	100	.0	498	10	.0	70	.0	40	10	.0	112	.0	713	20	.0
00404	IN	186	.0	262	20	.0	220	.0	37	10	.0	82	.0	531	20	.0
00405	IN	262	.0	209	40	.0	302	.2	5	30	.2	131	.0	469	20	.0
00405	M1	265	.0	311	40	.0	311	.0	60	20	.0	143	.0	626	20	.0
00406	IN	298	.0	210	30	.1	182	.0	53	20	.0	240	.0	435	60	.0
00406	M1	423	.1	148	70	.1	359	.0	53	60	.0	228	.0	447	50	.0
00407	IN	185	.0	335	50	.0	322	.0	58	50	.0	93	.0	467	30	.0
00408	IN	267	.0	233	50	.1	411	.0	56	60	.0	133	.1	402	40	.0
							* 1980 GMX BODY (6 CYL.) *									
00501	IN	408	.0	131	20	.0	93	.0	89	0	.0	166	.0	430	0	.0
00501	R1	218	.0	158	20	.0	65	.0	71	10	.0	87	.0	392	10	.0
00502	IN	36	.0	165	0	.0	5	.0	133	0	.0	63	.0	681	10	.0
00502	R1	148	.0	552	20	.0	81	.0	96	10	.0	50	.0	467	10	.0
00503	IN	57	.0	193	0	.0	2	.0	88	0	.0	24	.0	686	0	.0
00504	IN	117	.0	268	10	.0	29	.0	76	10	.1	117	.0	512	10	.0
00505	IN	200	.0	285	20	.0	65	.0	76	0	.0	84	.0	597	0	.0
00506	IN	33	.0	72	10	.0	8	.0	75	0	.0	100	.0	419	10	.0
00507	IN	88	.0	95	10	.0	15	.0	70	0	.0	21	.0	459	20	.0
00508	IN	124	.0	283	10	.0	38	.0	83	0	.0	29	.0	273	0	.0

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS (CONT'D)

EPA NO	SEQ	--TWO MODE (30MPH)-- LAB HC	LAB CO	LAB NOX	GARAGE HC	GARAGE CO	--TWO MODE (IDLE)-- LAB HC	LAB CO	LAB NOX	GARAGE HC	GARAGE CO	----50 MPH CRUISE--- LAB HC	LAB CO	LAB NOX	GARAGE HC	GARAGE CO
						* 1980 GMX BODY (4 CYL.) *										
00601	IN	209	.0	457	10	.0	38	.0	86	10	.0	169	.0	245	10	.0
00602	IN	148	.0	998	10	.0	32	.0	98	0	.0	50	.0	484	0	.0
00603	IN	304	.0	826	40	.0	53	.0	86	10	.0	96	.0	422	10	.0
00604	IN	607	.0	415	100	.0	90	.0	81	50	.0	65	.0	464	20	.0
00605	IN	87	.0	552	40	.0	26	.0	68	20	.0	56	.0	230	20	.0
00606	IN	169	.0	1474	40	.0	26	.0	123	10	.0	62	.0	599	20	.0
00606	IV	148	.0	1382	30	.0	26	.0	108	0	.0	87	.0	512	20	.0
						* 1980 MALIBU/CAMARO *										
00701	IN	108	.0	422	10	.0	75	.0	116	10	.0	136	.0	572	10	.0
00702	IN	51	.0	207	0	.0	88	.0	27	0	.0	30	.0	282	20	.0
00703	IN	169	.0	240	40	.0	75	.0	71	30	.0	29	.0	450	40	.0
00703	IV	108	.0	392	20	.0	26	.0	61	10	.0	72	.0	517	20	.0
00704	IN	50	.0	253	40	.0	228	.0	46	40	.0	26	.0	302	30	.0
00705	IN	57	.0	314	20	.0	27	.0	262	20	.0	15	.0	309	10	.0
00706	IN	87	.0	320	30	.0	32	.0	123	20	.0	13	.0	307	20	.0
						* 1978 VW DASHER *										
80201	IN	1908	.3	2275	90	.2	1624	1.1	108	60	1.0	1342	.1	1931	60	.2
80201	M1	1679	.2	2497	80	.2	623	.1	91	40	.1	1232	.1	1852	60	.1
80202	IN	1867	.2	1015	80	.2	1335	.8	104	50	.9	1932	.4	891	80	.4
80203	IN	2449	1.2	1307	130	1.4	1629	1.2	96	70	1.3	2121	.4	1362	100	.5
80203	M1	1880	.3	1763	80	.4	1571	.9	106	60	1.0	1754	.3	1613	70	.3
80204	IN	2398	.2	905	120	.2	1596	.9	61	80	.8	2315	.2	868	110	.1
80204	M1	1960	.2	775	90	.2	1052	.8	76	40	.8	1367	.1	686	60	.1
80205	IN	1806	.5	1058	80	.5	1332	1.2	81	100	1.1	1975	.6	1314	90	.7
80205	M1	2284	.5	1384	120	.5	4593	1.1	64	460	1.1	2076	.6	1778	80	.6
80206	IN	1607	.6	1135	100	.7	1577	2.1	64	80	2.0	996	.2	1227	70	.3
80206	M1	1421	.4	1185	80	.5	1317	.8	66	80	.9	876	.2	1349	60	.2

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS (CONT'D)

		--TWO MODE (30MPH)--					--TWO MODE (IDLE)--					----50 MPH CRUISE---				
		-----LAB----			GARAGE		----LAB----			GARAGE		-----LAB----			GARAGE	
EPA NO	SEQ	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO
							* 1979 MUSTANG *									
91301	IN	94	.0	267	20	.0	119	.0	41	20	.0	54	.0	429	20	.0
91307	IN	200	.0	253	30	.0	166	.0	33	20	.0	65	.0	459	10	.0
91307	M1	203	.0	322	40	.0	209	.2	18	20	.2	75	.0	509	20	.0
91310	IN	265	.0	381	20	.0	2052	3.0	47	120	2.9	94	.0	658	20	.0
91310	M1	131	.0	389	10	.0	91	.0	47	10	.0	51	.0	608	10	.0
91311	IN	241	.0	274	20	.0	1183	1.5	60	70	1.6	76	.0	346	20	.0
91314	IN	556	.0	449	60	.0	2734	3.8	57	160	3.8	143	.0	601	20	.0
91314	M1	296	.0	346	30	.0	1532	1.4	57	100	1.3	67	.0	434	20	.0
91315	IN	2828	3.5	138	230	3.6	2657	3.6	43	160	3.6	81	.0	589	20	.0
91315	M1	399	.1	173	80	.2	2100	.9	28	240	1.0	62	.0	784	40	.0
91317	IN	411	.0	2493	70	.0	5546	1.4	53	600	1.8	96	.0	2493	30	.0
91317	M1	408	.0	2493	80	.0	494	.1	53	40	.1	234	.0	2493	40	.0
91317	M2	228	.0	2493	40	.0	179	.0	71	10	.0	194	.0	2493	20	.0
91318	IN	125	.0	242	20	.0	2034	2.6	57	120	2.5	100	.0	257	20	.0
91318	M1	172	.0	330	30	.0	179	.3	31	20	.3	44	.0	255	10	.0
							* 1979 PINTO/BOBCAT *									
91306	IN	238	.0	274	20	.0	2223	3.5	62	130	3.8	137	.0	386	20	.0
91306	M1	122	.0	326	20	.0	400	.2	20	50	.2	155	.0	336	20	.0
91308	IN	128	.0	259	0	.0	449	.5	32	20	.6	149	.0	304	20	.0
91309	IN	212	.0	332	20	.0	108	.0	86	10	.0	96	.0	447	20	.0
91312	IN	3120	3.5	135	230	3.5	1708	1.6	48	110	1.8	2666	3.1	283	190	3.2
91312	M1	111	.0	293	30	.0	65	.0	78	20	.0	90	.0	327	20	.0
91316	IN	268	.0	334	30	.0	2266	3.8	55	130	3.8	100	.0	100	20	.0
91316	M1	241	.0	326	20	.0	149	.0	45	20	.0	131	.0	302	20	.0

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS (CONT'D)

		--TWO MODE (30MPH)--					--TWO MODE (IDLE)--					----50 MPH CRUISE---				
		-----LAB----			GARAGE		----LAB----			GARAGE		-----LAB----			GARAGE	
EPA NO	SEQ	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO
							* 1979 FAIRMONT/ZEPHYR *									
91302	IN	125	.0	249	20	.0	100	.0	71	10	.0	100	.0	340	0	.0
91302	R1	218	.0	223	30	.0	160	.0	83	20	.0	301	.0	634	30	.0
91303	IN	668	.0	332	40	.0	5275	6.2	48	240	5.4	93	.0	726	0	.0
91303	M1	172	.0	302	20	.0	1023	.5	46	40	.4	90	.0	527	20	.0
91304	IN	272	.0	2301	40	.0	1566	2.1	172	100	1.9	97	.0	2046	20	.0
91304	M1	79	.0	252	20	.0	70	.1	10	20	.1	88	.0	431	20	.0
91305	IN	158	.0	2493	40	.0	1495	2.5	115	80	2.2	67	.0	2288	20	.0
91305	M1	164	.0	217	20	.0	131	.0	72	20	.0	88	.0	411	20	.0
91313	IN	515	.0	337	60	.0	5856	6.9	43	290	6.8	154	.0	494	40	.0
91313	M1	255	.0	283	30	.0	1678	.9	48	120	1.0	108	.0	462	10	.0
							* 1979 CAPRI *									
91706	IN	394	.0	785	60	.0	385	.0	117	50	.0	171	.0	608	20	.0
91707	IN	943	.0	691	120	.0	821	.0	58	80	.0	546	.0	422	80	.0
91708	IN	1852	.1	2214	160	.1	5816	5.7	71	260	5.4	527	.4	1711	40	.5
91709	IN	852	.0	345	110	.0	1274	.0	78	180	.0	298	.0	589	40	.0
91710	IN	503	.0	285	60	.0	368	.0	103	50	.0	313	.0	357	40	.0
91711	IN	310	.0	1349	150	.0	130	.0	133	100	.0	218	.0	694	60	.0
91711	M1	228	.0	1155	50	.0	114	.0	96	20	.0	172	.0	592	30	.0
91714	IN	155	.0	651	30	.0	164	.0	169	20	.0	155	.0	481	30	.0
							* 1979 GRANADA/MONARCH *									
91701	IN	339	.0	1107	50	.0	776	.0	122	120	.0	265	.0	655	40	.0
91702	IN	280	.0	2493	60	.0	133	.0	118	30	.0	172	.0	2493	40	.0
91702	IV	231	.0	307	30	.0	139	.0	58	10	.0	142	.0	240	20	.0
91703	IN	201	.0	578	30	.0	134	.0	227	20	.0	186	.0	441	30	.0
91705	IN	143	.0	753	20	.0	195	.0	77	20	.0	73	.0	1129	20	.0
91705	M1	201	.0	75	20	.0	161	.0	55	20	.0	27	.0	132	10	.0
91712	IN	1607	.0	1192	180	.0	659	.0	96	80	.0	478	.0	477	70	.0
91712	M1	1057	.0	793	130	.0	530	.0	83	50	.0	454	.0	457	80	.0
91713	IN	229	.0	272	40	.0	718	.0	57	20	.0	189	.0	209	30	.0

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS (CONT'D)

EPA NO	SEQ	--TWO MODE (30MPH)-- -----LAB---- HC	CO	NOX	GARAGE HC	CO	--TWO MODE (IDLE)-- ----LAB---- HC	CO	NOX	GARAGE HC	CO	----50 MPH CRUISE--- -----LAB---- HC	CO	NOX	GARAGE HC	CO
							* 1979 CAMARO *									
92101	IN	145	.0	206	40	.0	185	.0	104	50	.0	145	.0	313	30	.0
92101	IV	172	.0	191	20	.0	166	.0	86	20	.0	81	.0	315	20	.0
92102	IN	515	.0	143	50	.0	3370	3.1	24	200	3.1	99	.0	360	10	.0
92102	IV	448	.0	161	70	.0	3671	3.3	14	240	3.3	117	.0	360	30	.0
92102	M1	142	.0	213	20	.0	203	.0	51	20	.0	62	.0	358	10	.0
92102	MV	172	.0	191	20	.0	264	.0	9	10	.0	59	.0	375	10	.0
92103	IN	1128	1.1	519	100	1.8	1578	.8	66	90	.9	79	.0	1341	10	.0
92103	IV	669	1.2	681	40	1.1	2220	1.3	83	120	1.2	106	.0	1296	20	.0
92103	M1	1296	.6	190	110	.5	235	.0	58	30	.0	128	.0	352	20	.0
92103	MV	1067	.9	195	100	1.4	223	.0	61	20	.0	82	.0	317	20	.0
92104	IN	1020	.4	280	70	1.0	2558	.8	36	180	.7	172	.0	365	40	.0
92104	IV	478	.1	123	40	.1	2596	.6	31	190	.6	124	.0	380	20	.0
92104	M1	638	.2	74	60	.1	882	.1	21	60	.0	117	.0	320	20	.0
92104	MV	576	.1	106	40	.3	381	.0	41	20	.0	93	.0	343	0	.0
92105	IN	252	.0	260	10	.0	117	.0	472	0	.0	65	.0	485	0	.0
92105	IV	179	.0	375	30	.0	209	.0	181	40	.0	65	.0	437	20	.0
92106	IN	3407	1.2	93	200	1.3	5001	5.7	41	300	5.4	195	.0	574	20	.0
92106	IV	3197	1.9	123	250	1.8	6986	5.6	28	380	4.8	262	.0	452	20	.0
92106	M1	1525	.3	96	140	.7	1861	.2	11	160	.2	154	.0	547	30	.0
92106	M2	301	.1	201	40	.0	295	.0	74	50	.0	102	.0	510	30	.0
92107	IN	108	.0	191	20	.0	185	.0	123	50	.0	47	.0	360	10	.0
92107	IV	124	.0	183	10	.0	72	.0	255	10	.0	50	.0	300	10	.0

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS (CONT'D)

		--TWO MODE (30MPH)--					--TWO MODE (IDLE)--					----50 MPH CRUISE---				
		-----LAB----			GARAGE		----LAB----			GARAGE		-----LAB----			GARAGE	
EPA NO	SEQ	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO
							* 1979 CHEVETTE *									
92401	IN	302	.0	564	30	.0	1137	.6	41	60	.6	112	.0	840	10	.0
92401	IV	320	.0	561	30	.0	954	.4	33	60	.4	109	.0	863	20	.0
92401	R1	1434	.3	800	80	.1	1618	2.0	35	120	2.0	112	.0	818	20	.0
92402	IN	715	.0	1602	70	.0	161	.0	193	20	.0	201	.0	688	20	.0
92402	IV	152	.0	1946	20	.0	67	.0	180	10	.0	115	.0	726	20	.0
92402	R1	423	.0	1885	40	.0	93	.0	153	10	.0	264	.0	634	10	.0
92403	IN	532	.0	1017	40	.0	2612	2.9	58	160	2.8	134	.0	845	20	.0
92403	IV	449	.0	387	20	.0	2009	2.5	38	140	2.4	140	.0	838	20	.0
92403	M1	94	.0	352	10	.0	63	.0	48	10	.0	119	.0	785	20	.0
92403	MV	186	.0	980	20	.0	63	.0	73	10	.0	143	.0	775	20	.0
92403	R1	212	.0	367	20	.0	280	.0	61	20	.0	142	.0	671	40	.0
92404	IN	235	.0	414	20	.0	94	.0	98	20	.0	106	.0	519	20	.0
92404	IV	268	.0	365	20	.0	79	.0	81	10	.0	36	.0	270	10	.0
92404	R1	524	.0	442	50	.0	215	.0	96	30	.0	124	.0	410	20	.0
92405	IN	1274	.0	2495	100	.1	1904	1.3	66	120	1.5	191	.0	2495	30	.0
92405	IV	1179	.0	2495	80	.0	1714	1.0	71	90	1.2	194	.0	2495	30	.0
92405	M1	907	.0	1152	60	.0	1256	.4	39	70	.3	154	.0	1108	10	.0
92405	MV	680	.0	1252	70	.0	1234	.6	44	100	.7	130	.0	1235	20	.0
92405	R1	1167	.0	1137	80	.0	1543	.8	33	80	.8	234	.0	1167	20	.0
92406	IN	231	.0	1304	40	.0	1035	.7	108	70	.7	87	.0	649	10	.0
92406	IV	240	.0	1157	50	.0	1164	.8	126	80	.9	62	.0	589	20	.0
92406	R1	241	.0	1448	30	.0	792	.5	97	50	.5	88	.0	558	20	.0
92407	IN	363	.0	1727	30	.0	2046	1.8	113	140	1.9	140	.0	920	20	.0
92407	IV	418	.0	1386	40	.0	2321	1.9	91	130	1.9	106	.0	800	30	.0
92407	R1	249	.0	1090	30	.0	59	.0	165	10	.0	90	.0	659	20	.0

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS (CONT'D)

		--TWO MODE (30MPH)--					--TWO MODE (IDLE)--					----50 MPH CRUISE---				
		-----LAB----			GARAGE		----LAB----			GARAGE		-----LAB----			GARAGE	
EPA NO	SEQ	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO
							* 1979 HONDA *									
93301	IN	852	.5	804	40	.6	662	.1	81	30	.1	488	.4	898	20	.4
93301	IV	839	.5	749	90	.5	699	.1	81	90	.1	491	.4	871	60	.4
93302	IN	1565	.5	1825	100	.5	870	.1	74	60	.1	1225	.8	1932	70	.7
93302	IV	1568	.5	1688	110	.6	913	.1	81	70	.1	1118	.7	1708	70	.7
93303	IN	1164	.3	1053	70	.4	1096	.1	61	80	.1	784	.3	1232	40	.4
93303	IV	1210	.4	1003	90	.4	1115	.1	64	100	.1	858	.3	1227	60	.4
93304	IN	1067	.2	900	70	.3	749	.2	68	60	.2	773	.1	1037	40	.1
93304	IV	1009	.1	751	70	.1	770	.2	53	60	.2	700	.2	955	40	.1
93305	IN	1081	.1	883	90	.1	913	.1	56	80	.1	870	.3	941	70	.3
93305	IV	1081	.2	986	80	.1	836	.1	59	70	.1	830	.3	1085	70	.3
93306	IN	1066	.5	784	60	.5	576	.1	84	40	.2	950	.3	1078	60	.4
93306	IV	1118	.6	816	60	.6	631	.2	94	40	.2	965	.3	1167	60	.4
93307	IN	929	.3	693	60	.3	440	.0	58	30	.0	691	.3	967	40	.3
93307	IV	770	.2	873	50	.2	400	.0	36	30	.0	639	.2	980	40	.2
							* 1979 SUBARU *									
95501	IN	448	.2	936	10	.2	1632	3.0	81	50	2.9	68	.1	938	10	.1
95501	M1	836	.2	674	70	.2	901	.2	81	70	.2	81	.1	836	40	.1
95501	R1	686	.2	1000	30	.2	228	.3	71	10	.4	130	.1	913	10	.2
95502	IN	2121	.4	931	100	.6	861	1.4	89	30	1.4	78	.1	801	10	.1
95502	R1	943	.1	584	80	.1	677	.9	56	60	.9	50	.1	577	30	.1
95503	IN	515	.1	789	20	.2	546	.2	99	30	.3	160	.1	948	10	.2
95504	IN	226	.1	479	20	.1	97	.1	88	10	.1	27	.1	504	20	.1
95505	IN	874	.1	1062	40	.1	510	.8	103	20	.8	100	.1	990	10	.1
95506	IN	555	.1	826	20	.1	359	.7	66	10	.8	65	.1	811	20	.1
95507	IN	559	.2	800	20	.2	424	.3	120	20	.5	82	.1	1007	10	.1

TABLE 5.8-5 TWO MODE & 50 MPH CRUISE TESTS (CONT'D)

		--TWO MODE (30MPH)--					--TWO MODE (IDLE)--					----50 MPH CRUISE---				
		-----LAB----			GARAGE		----LAB----			GARAGE		-----LAB----			GARAGE	
EPA NO	SEQ	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO
							* 1979 LUV PICKUP *									
95601	IN	807	.4	551	60	.4	314	.4	47	20	.4	629	.3	820	40	.4
95601	M1	648	.3	356	40	.3	385	.2	42	30	.2	525	.3	606	20	.3
95602	IN	791	1.5	407	60	1.6	448	.5	68	40	.6	576	1.4	442	60	1.5
95603	IN	821	.5	661	50	.5	478	.5	53	30	.6	601	.5	846	40	.7
95603	M1	882	.4	751	80	.5	543	.2	63	50	.3	607	.5	771	50	.7
95604	IN	675	.5	593	40	.5	327	.4	47	20	.4	467	.5	825	20	.4
95604	M1	645	.4	813	40	.4	302	.1	57	20	.2	455	.3	810	20	.4
95605	IN	277	.5	696	20	.6	295	.4	53	20	.4	130	.4	604	10	.4
95606	IN	476	.3	267	30	.3	333	.4	65	20	.4	296	.4	436	20	.3
							* 1979 CHEV. PICKUP *									
95701	IN	148	.0	195	20	.0	225	.0	81	40	.0	90	.0	447	10	.0
95702	IN	42	.0	62	20	.0	36	.0	30	20	.0	36	.0	197	10	.0
95703	IN	172	.0	307	20	.0	142	.0	73	20	.0	84	.0	592	20	.0
95704	IN	136	.0	342	20	.0	286	.0	78	20	.0	78	.0	686	10	.0
95704	M1	212	.0	265	30	.0	503	.0	56	60	.0	136	.0	517	30	.0
95705	IN	388	.0	141	20	.0	1511	.0	4	20	.0	486	.0	316	20	.0
95706	IN	210	.0	338	40	.1	76	.0	54	20	.0	480	.0	346	120	.0

TABLE 5.8-6 FOUR MODE TEST RESULTS

EPA NO	SEQ	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	------2500 RPM----- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE IN GEAR--- ----LAB--- HC	CO	NOX	GARAGE HC	CO
									* 1980 JEEP *														
00101	IN	91	.0	52	20	.0	51	.0	125	10	.0	106	.0	67	20	.0							
00102	IN	70	.0	70	20	.0	88	.0	102	20	.0	67	.0	85	20	.0							
00103	IN	82	.0	42	10	.0	36	.0	125	10	.0	91	.0	55	20	.0							
00103	IV	174	.0	47	20	.0	48	.0	117	20	.0	140	.0	60	30	.0							
00104	IN	88	.0	32	20	.0	63	.0	182	20	.0	67	.0	82	20	.0							
00105	IN	128	.0	77	20	.0	79	.0	184	20	.0	100	.0	107	20	.0							
00106	IN	382	.0	127	60	.0	171	.0	122	20	.0	232	.0	107	40	.0							
									* 1980 FAIRMONT *														
00201	IN	137	.0	86	20	.0	174	.0	78	30	.0	15	.0	91	10	.0	18	.0	307	10	.0		
00201	IV	137	.0	86	20	.0	201	.0	83	30	.0	57	.0	93	20	.0	51	.0	429	20	.0		
00202	IN	45	.0	26	0	.0	73	.1	33	20	.1	5	.0	23	0	.0	5	.0	61	0	.0		
00202	IV	164	.0	78	30	.0	287	.0	73	40	.0	15	.0	71	20	.0	15	.0	292	20	.0		
00203	IN	112	.0	71	10	.0	143	.0	63	30	.0	11	.0	58	10	.0	8	.0	110	10	.0		
00203	IV	210	.0	73	20	.0	204	.0	53	30	.0	45	.0	63	20	.0	42	.0	183	20	.0		
00204	IN	172	.0	36	40	.0	127	.0	74	50	.0	26	.0	34	20	.0	20	.0	108	20	.0		
00205	IN	139	.0	39	30	.0	136	.0	76	50	.0	16	.0	46	30	.0	10	.0	171	20	.0		
00206	IN	122	.0	71	20	.0	67	.0	252	20	.0	63	.0	101	20	.0	57	.0	170	20	.0		
00207	IN	4931	2.1	48	350	1.9	596	.0	83	50	.0	226	.0	78	20	.0	265	.0	73	20	.0		
									* 1980 DATSUN (91 CID) *														
00302	IN	3360	3.4	19	200	3.5	353	.0	126	20	.0	5054	3.3	14	290	3.2							
00302	IV	3250	3.2	31	200	3.0	362	.0	141	10	.1	3891	2.4	24	220	2.2							
00307	IN	298	.0	58	20	.0	108	.0	243	20	.0	127	.0	26	20	.0							
00308	IN	127	.0	46	10	.0	127	.0	180	20	.0	120	.0	33	10	.0							
00309	IN	255	.0	53	30	.0	206	.0	158	30	.0	261	.0	51	20	.0							
00310	IN	475	.0	53	20	.0	277	.0	170	10	.0	384	.0	51	10	.0							
00311	IN	255	.0	53	30	.0	124	.0	205	20	.0	243	.0	63	30	.0							

TABLE 5.8-6 FOUR MODE TEST RESULTS (CONT'D)

EPA NO	SEQ	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	------2500 RPM----- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE IN GEAR--- ----LAB--- HC	CO	NOX	GARAGE HC	CO
							* 1980 DATSUN (85 CID) *																
00301	IN	220	.0	68	20	.0	183	.0	105	20	.0	250	.0	33	20	.0							
00303	IN	106	.0	128	0	.0	119	.0	98	10	.0	91	.0	36	10	.0							
00304	IN	142	.0	64	0	.0	120	.0	236	0	.0	371	.0	49	0	.0							
00305	IN	917	.6	38	90	.6	220	.0	183	20	.0	1012	.5	18	100	.5							
00306	IN	1312	.7	170	140	.7	247	.0	143	30	.0	1269	.6	38	130	.6							
							* 1980 COURIER *																
00401	IN	124	.0	64	0	.0	124	.0	71	10	.0	145	.0	61	0	.0							
00401	IV	157	.0	64	30	.0	182	.0	99	40	.0	439	.1	81	50	.1							
00402	IN	2199	2.4	5	130	2.4	327	1.0	17	20	1.0	2269	2.7	2	130	2.6							
00402	M1	143	.0	25	20	.0	85	.1	239	20	.1	73	.0	52	10	.0							
00402	MV	106	.0	22	20	.0	112	.0	97	10	.0	76	.0	27	10	.0							
00403	IN	1180	1.5	12	70	1.4	88	.0	149	20	.0	792	1.5	5	40	1.4							
00403	M1	140	.0	22	10	.0	67	.0	132	20	.0	85	.0	35	10	.0							
00404	IN	158	.0	27	10	.0	216	.0	70	20	.0	192	.0	32	20	.0							
00405	IN	525	.2	17	50	.2	171	.0	45	20	.1	119	.0	15	20	.0							
00405	M1	268	.0	32	20	.0	314	.0	57	40	.0	299	.0	32	20	.0							
00406	IN	246	.0	58	20	.0	322	.6	18	40	.7	218	.0	53	20	.0							
00406	M1	320	.0	51	20	.0	610	.8	18	50	.9	332	.0	43	40	.0							
00407	IN	163	.0	46	50	.0	188	.0	93	60	.0	255	.0	43	60	.0							
00408	IN	319	.0	38	40	.0	261	.3	23	40	.5	307	.0	38	40	.0							
							* 1980 GMX BODY (6 CYL.) *																
00501	IN	206	.0	74	10	.0	1923	3.7	61	80	3.6	185	.0	64	10	.0	166	.0	84	0	.0		
00501	R1	151	.0	68	10	.0	2253	3.9	21	120	4.7	127	.0	61	10	.0	130	.0	71	10	.0		
00502	IN	39	.0	83	0	.0	449	1.8	63	30	1.8	15	.0	78	0	.0	8	.0	135	0	.0		
00502	R1	87	.0	63	10	.0	93	.0	203	10	.0	53	.0	71	10	.0	53	.0	93	10	.0		
00503	IN	45	.0	165	10	.0	883	2.5	63	30	2.0	15	.0	78	10	.0	8	.0	93	0	.0		
00504	IN	154	.0	61	10	.0	760	2.1	49	30	2.5	65	.0	61	10	.0	68	.0	66	10	.0		
00505	IN	111	.0	76	10	.0	1739	3.2	56	80	3.5	93	.0	71	0	.0	105	.0	88	0	.0		
00506	IN	45	.0	92	10	.0	48	.0	120	10	.0	45	.0	67	10	.0	36	.0	87	10	.0		
00507	IN	67	.0	42	0	.0	2996	6.1	32	150	6.4	51	.0	52	10	.1	33	.0	52	0	.0		
00508	IN	68	.0	73	10	.0	148	.0	58	20	.0	26	.0	66	0	.0	62	.0	78	0	.0		

TABLE 5.8-6 FOUR MODE TEST RESULTS (CONT'D)

		----IDLE NEUTRAL---					------2500 RPM-----					----IDLE NEUTRAL---					----IDLE IN GEAR---				
		----LAB---			GARAGE		----LAB---			GARAGE		----LAB---			GARAGE		----LAB---			GARAGE	
EPA NO	SEQ	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO	HC	CO	NOX	HC	CO
							* 1980 GMX BODY (4 CYL.) *														
00601	IN	78	.0	53	10	.0	81	.0	108	10	.0	56	.0	56	10	.0	81	.0	91	10	.0
00602	IN	47	.0	53	0	.0	65	.0	123	0	.0	35	.0	56	0	.0	50	.0	108	0	.0
00603	IN	99	.0	36	10	.0	81	.0	198	10	.0	68	.0	58	10	.0	78	.0	68	10	.0
00604	IN	56	.0	46	20	.0	96	.0	106	30	.0	53	.0	56	20	.0	72	.0	98	20	.0
00605	IN	59	.0	28	20	.0	26	.0	121	20	.0	26	.0	58	20	.0	29	.0	46	20	.0
00606	IN	44	.0	53	20	.0	26	.0	183	20	.0	32	.0	58	10	.0	35	.0	101	10	.0
00606	IV	56	.0	43	10	.0	47	.0	160	10	.0	47	.0	58	10	.0	44	.0	71	10	.0
							* 1980 MALIBU/CAMARO *														
00701	IN	209	.0	36	10	.0	99	.0	126	10	.0	96	.0	53	10	.0	75	.0	91	10	.0
00702	IN	79	.0	87	10	.0	24	.0	177	0	.0	33	.0	32	0	.0	27	.0	22	0	.0
00703	IN	75	.0	58	40	.0	16	.0	96	40	.0	47	.0	46	40	.0	75	.0	46	40	.0
00703	IV	93	.0	46	20	.0	35	.0	106	20	.0	53	.0	53	20	.0	133	.0	53	20	.0
00704	IN	127	.0	48	40	.0	4	.0	163	40	.0	93	.0	48	40	.0	218	.5	28	60	.5
00705	IN	51	.0	209	20	.0	27	.0	194	20	.0	15	.0	102	20	.0	15	.0	302	20	.0
00706	IN	44	.0	56	30	.0	10	.0	116	20	.0	16	.0	68	20	.0	23	.0	153	20	.0
							* 1978 VW DASHER *														
80201	IN	1364	.9	58	60	.8	740	.3	317	30	.3	1789	1.1	76	70	.9					
80201	M1	394	.1	66	20	.1	458	.1	280	20	.1	623	.1	71	50	.1					
80202	IN	977	.9	79	30	.9	974	.6	131	30	.7	1503	.8	81	60	.9					
80203	IN	1081	1.0	69	60	1.1	1155	.8	116	50	.8	1647	1.1	69	80	1.2					
80203	M1	1100	.8	81	40	.9	999	.6	143	30	.7	1448	.9	71	60	1.0					
80204	IN	1012	.8	48	60	.8	868	.4	118	60	.4	1556	.8	48	80	.8					
80204	M1	672	.7	58	30	.6	700	.3	163	20	.2	1012	.7	58	40	.6					
80205	IN	989	1.2	64	60	1.2	784	1.0	106	30	1.1	1066	1.2	56	60	1.1					
80205	M1	5495	1.1	66	500	1.0	1133	.9	118	60	1.0	5094	1.1	56	500	1.1					
80206	IN	1271	2.0	59	70	2.0	537	.6	104	40	.6	1372	2.0	46	70	1.9					
80206	M1	1060	.9	56	60	.9	356	.3	104	20	.3	1366	.9	49	100	.9					

TABLE 5.8-6 FOUR MODE TEST RESULTS (CONT'D)

EPA NO	SEQ	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	------2500 RPM----- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE IN GEAR--- ----LAB--- HC	CO	NOX	GARAGE HC	CO
												* 1979 MUSTANG *											
91301	IN	253	.0	41	50	.0	79	.0	208	20	.0	247	.0	66	60	.0	158	.0	48	50	.0
91307	IN	179	.0	53	20	.0	852	.0	73	140	.0	93	.0	53	20	.0	84	.0	71	20	.0
91307	M1	218	.0	58	110	2.5	486	.2	222	50	.3	1832	2.7	35	110	2.5	2076	2.4	47	150	2.1
91310	IN	1985	2.6	62	30	.0	510	.0	77	100	.0	79	.0	50	10	.0	60	.0	90	10	.0
91310	M1	229	.0	50	30	.0	1985	.0	80	180	.0	700	1.2	35	60	1.3	424	.4	30	40	.6
91311	IN	2514	1.6	27	200	1.6	3096	.0	95	380	.1	2713	3.6	55	160	3.4	2673	3.2	52	190	3.0
91314	IN	9999	5.4	20	680	5.0	1495	.0	82	190	.0	1214	1.1	55	110	1.0	1281	.8	57	110	.8
91314	M1	2199	1.0	139	160	.9	2030	1.9	128	140	2.4	2779	2.9	36	180	3.0	2580	3.4	33	180	3.3
91315	IN	2963	2.8	36	200	2.9	3531	5.7	66	220	5.6	3029	.9	28	320	1.0	2259	1.4	33	200	1.5
91315	M1	3310	.8	26	400	.9	249	.0	564	60	.0	6498	1.7	36	850	1.7	3270	1.5	58	350	1.6
91317	IN	6067	.6	53	800	.8	301	.0	534	40	.0	277	.0	71	40	.0	319	.0	76	50	.0
91317	M1	491	.1	61	60	.1	130	.0	529	20	.0	218	.0	86	20	.0	194	.0	93	20	.0
91317	M2	270	.0	91	20	.0	905	.0	77	120	.0	2113	2.5	50	130	2.4	2076	2.3	52	140	2.2
91318	IN	403	.1	12	30	.2	341	.0	73	50	.0	62	.0	21	10	.1	53	.0	78	10	.0
91318	M1	96	.0	111	20	.0															
												* 1979 PINTO/BOBCAT *											
91306	IN	6705	4.5	25	360	4.5	2044	.0	80	280	.1	2187	3.0	47	150	3.2	2404	3.1	70	180	3.2
91306	M1	100	.0	27	20	.0	577	.0	87	90	.0	155	.1	12	20	.1	265	.3	17	40	.3
91308	IN	342	.1	95	20	.1	363	.2	259	20	.1	284	.1	40	20	.1	161	.0	37	20	.1
91309	IN	283	.0	76	50	.0	873	.0	71	120	.0	99	.0	78	20	.0	78	.0	135	20	.0
91312	IN	1421	1.2	48	90	1.3	3611	4.9	135	180	4.6	429	.1	18	50	.1	1555	1.3	33	120	1.4
91312	M1	78	.0	58	20	.0	690	.0	66	100	.0	50	.0	73	20	.0	50	.0	88	20	.0
91316	IN	2841	3.5	35	200	3.3	2996	.1	90	140	.2	2236	3.1	52	140	3.0	2358	3.0	60	180	2.8
91316	M1	259	.0	55	40	.0	822	.0	182	40	.0	296	.0	62	20	.0	167	.0	122	20	.0

TABLE 5.8-6 FOUR MODE TEST RESULTS (CONT'D)

EPA NO	SEQ	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	------2500 RPM----- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE IN GEAR--- ----LAB--- HC	CO	NOX	GARAGE HC	CO
							* 1979 FAIRMONT/ZEPHYR *															
91302	IN	1091	.0	76	140	.0	1220	.0	163	130	.0	94	.0	88	10	.0	85	.0	160	10	.0
91302	R1	402	.0	108	60	.0	956	.0	96	140	.0	200	.0	96	20	.0	160	.0	158	20	.0
91303	IN	4062	5.1	31	200	4.7	1035	.0	78	100	.0	3791	5.1	28	190	4.7	3992	4.9	26	260	4.6
91303	M1	809	.2	48	60	.2	953	.1	76	140	.0	509	.4	36	40	.4	90	.2	23	20	.0
91304	IN	1749	1.7	47	120	1.5	210	.0	351	20	.0	1618	1.6	50	120	1.4	1703	1.6	45	130	1.4
91304	M1	262	.0	32	40	.0	975	.0	60	160	.0	140	.0	47	20	.0	67	.0	45	10	.0
91305	IN	97	.0	139	20	.0	1229	1.6	242	80	.9	1446	2.3	60	90	2.4	1566	1.9	85	120	2.0
91305	M1	97	.0	45	10	.0	504	.0	77	60	.0	79	.0	67	20	.0	60	.0	87	10	.0
91313	IN	4724	6.3	46	220	6.0	601	.0	133	90	.0	4904	6.7	43	280	6.4	4924	6.4	43	350	6.0
91313	M1	221	.0	51	20	.0	429	.0	128	60	.0	264	.3	33	20	.3	142	.2	36	10	.0
							* 1979 CAPRI *															
91706	IN	1403	.0	75	160	.0	1128	.0	159	150	.0	161	.0	82	20	.0	100	.0	169	20	.0
91707	IN	5125	1.5	21	500	1.5	1739	.0	145	240	.0	503	.0	43	50	.0	460	.0	48	20	.0
91708	IN	5536	4.9	43	260	4.8	4543	1.7	168	250	1.9	5947	5.0	53	290	4.8	5114	5.3	58	340	5.1
91709	IN	546	.0	63	70	.0	943	.0	195	120	.0	659	.0	83	100	.0	218	.0	178	40	.0
91710	IN	433	.0	58	50	.0	1678	.0	121	230	.0	353	.0	81	40	.0	221	.0	165	20	.0
91711	IN	668	.0	71	110	.0	1861	.0	243	360	.0	166	.0	118	60	.0	124	.0	240	110	.0
91711	M1	1984	.8	33	140	.9	1213	.0	203	180	.0	124	.0	88	20	.0	154	.0	148	20	.0
91714	IN	394	.0	157	60	.0	1036	.0	132	150	.0	155	.0	102	20	.0	63	.0	202	20	.0
							* 1979 GRANADA/MONARCH *															
91701	IN	2153	.0	70	300	.0	1159	.0	209	170	.0	486	.0	95	70	.0	220	.0	122	40	.0
91702	IN	221	.0	73	50	.0	87	.0	721	40	.0	120	.0	96	40	.0	139	.0	111	40	.0
91702	IV	215	.0	46	40	.0	570	.0	133	70	.0	117	.0	61	20	.0	111	.0	93	20	.0
91703	IN	415	.0	72	60	.0	431	.0	139	60	.0	119	.0	105	20	.0	76	.0	189	10	.0
91705	IN	4400	.1	57	500	.1	167	.0	197	20	.0	256	.0	62	30	.0	143	.0	107	20	.0
91705	M1	473	.0	47	60	.0	265	.0	70	40	.0	241	.0	50	40	.0	201	.0	57	40	.0
91712	IN	6819	3.7	46	460	3.7	3310	.0	223	470	.0	485	.0	83	80	.0	1127	.3	43	150	.6
91712	M1	6939	3.5	41	480	3.5	3089	.0	210	400	.0	469	.0	78	60	.0	1877	.7	38	160	.9
91713	IN	210	.1	25	30	.2	348	.0	87	50	.0	100	.0	57	20	.0	149	.0	117	20	.0

TABLE 5.8-6 FOUR MODE TEST RESULTS (CONT'D)

EPA NO	SEQ	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	------2500 RPM----- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE IN GEAR--- ----LAB--- HC	CO	NOX	GARAGE HC	CO
										* 1979 CAMARO *													
92101	IN	176	.0	79	40	.0	191	.0	108	40	.0	154	.0	81	40	.0	62	.0	176	30	.0
92101	IV	145	.0	81	20	.0	225	.0	111	40	.0	130	.0	86	20	.0	56	.0	236	20	.0
92102	IN	3711	1.8	26	260	1.8	1204	.4	54	80	.6	3330	2.8	19	200	2.8	3009	2.8	21	230	2.7
92102	IV	3290	1.8	19	230	1.7	344	.1	51	80	.1	3390	2.9	9	220	2.8	2939	3.2	14	260	3.1
92102	M1	136	.0	81	20	.0	114	.0	89	20	.0	124	.1	31	20	.0	59	.0	193	10	.0
92102	MV	130	.0	76	20	.0	234	.0	56	20	.0	166	.1	9	20	.1	576	.4	26	90	.4
92103	IN	1932	.6	38	120	.7	155	.0	245	20	.0	1663	.8	46	110	.8	1774	1.2	51	140	.8
92103	IV	2465	.7	33	200	.7	109	.0	260	20	.0	2220	1.3	58	140	1.3	2285	1.6	53	180	1.6
92103	M1	220	.0	53	20	.0	2214	1.9	63	110	2.0	229	.0	56	20	.0	134	.0	66	20	.0
92103	MV	164	.0	53	20	.0	2015	1.4	63	110	1.6	210	.0	56	20	.0	158	.0	53	20	.0
92104	IN	1286	.3	26	160	.3	206	.0	260	50	.0	1791	.3	26	180	.3	1867	1.0	74	170	1.0
92104	IV	735	.2	21	80	.2	913	.2	39	100	.2	1372	.3	24	160	.3	1592	.8	74	130	.8
92104	M1	200	.0	76	30	.0	1984	1.2	46	120	1.0	243	.0	54	40	.0	124	.0	61	50	.1
92104	MV	142	.0	81	0	.0	1555	1.1	56	80	1.1	188	.0	51	10	.0	347	.1	59	30	.1
92105	IN	209	.0	128	10	.0	194	.0	128	0	.0	197	.0	126	10	.0	87	.0	475	0	.0
92105	IV	169	.0	113	30	.0	212	.0	111	40	.0	191	.0	118	40	.0	81	.0	405	20	.0
92106	IN	5041	4.0	28	320	3.8	4159	4.6	61	200	4.5	5452	4.7	33	300	4.6	4670	5.0	31	350	4.7
92106	IV	5202	4.0	76	310	3.9	4269	4.6	74	230	4.4	6234	5.1	26	340	5.0	4901	5.3	26	350	5.0
92106	M1	157	.0	69	30	.0	2357	2.0	44	130	2.1	797	.1	19	100	.1	2176	.5	39	200	.6
92106	M2	200	.0	76	50	.0	2106	1.3	44	140	1.5	240	.0	76	50	.0	117	.0	181	40	.0
92107	IN	142	.0	84	30	.0	102	.0	113	20	.0	124	.0	84	30	.0	47	.0	251	20	.0
92107	IV	292	.0	9	40	.0	218	.0	79	20	.0	185	.0	71	20	.0	68	.0	136	20	.0

TABLE 5.8-6 FOUR MODE TEST RESULTS (CONT'D)

EPA NO	SEQ	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	------2500 RPM----- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE IN GEAR--- ----LAB--- HC	CO	NOX	GARAGE HC	CO
									* 1979 CHEVETTE *														
92401	IN	608	.1	53	40	.1	1985	2.1	73	100	2.1	883	.2	38	60	.2	984	.1	48	90	.1
92401	IV	88	.0	41	20	.0	868	.4	61	60	.3	724	.2	33	50	.2	516	.1	33	40	.1
92401	R1	816	.2	35	60	.2	1556	1.4	85	70	.9	1137	.4	22	80	.5	1312	.3	50	100	.2
92402	IN	63	.0	61	20	.0	1434	.6	257	100	.9	109	.0	88	10	.0	94	.0	150	10	.0
92402	IV	76	.0	63	10	.0	2535	1.7	255	150	1.5	250	.0	93	20	.0	131	.0	158	20	.0
92402	R1	124	.0	63	10	.0	530	.4	126	40	.7	93	.0	76	10	.0	90	.0	213	10	.0
92403	IN	2223	1.6	71	160	1.5	2508	1.8	275	150	1.9	2361	1.9	46	160	1.9	2474	1.8	33	170	1.7
92403	IV	1642	1.1	36	120	1.0	1520	.5	367	100	.4	1587	1.4	53	120	1.3	1740	1.3	36	140	1.2
92403	M1	24	.0	33	10	.0	1220	.8	250	70	.8	85	.0	53	10	.0	45	.0	41	10	.0
92403	MV	63	.0	108	10	.0	201	.1	63	20	.1	60	.0	63	10	.0	51	.0	113	10	.0
92403	R1	72	.0	73	20	.0	2259	1.5	347	140	1.7	215	.0	78	30	.0	179	.0	148	30	.0
92404	IN	51	.0	81	10	.0	1878	2.4	58	100	2.5	143	.0	56	20	.0	91	.0	108	20	.0
92404	IV	51	.0	71	10	.0	1480	1.9	41	80	1.8	128	.0	38	10	.0	79	.0	58	10	.0
92404	R1	87	.0	86	20	.0	1947	1.5	83	80	.7	362	.1	58	50	.1	203	.0	153	40	.0
92405	IN	1923	1.2	61	120	1.2	2290	1.6	186	140	1.6	1971	1.3	34	120	1.4	1984	.9	49	140	1.0
92405	IV	1549	.8	69	90	.9	478	.2	123	40	.3	1522	.8	21	90	.9	1427	.5	34	80	.4
92405	M1	81	.0	44	10	.0	791	.4	101	40	.5	619	.1	24	50	.1	163	.0	49	10	.0
92405	MV	99	.1	36	30	.1	528	.3	69	50	.3	240	.1	26	40	.1	148	.0	39	30	.0
92405	R1	1060	.4	28	70	.5	2437	2.0	230	120	2.2	1488	.6	18	90	.8	1164	.3	21	60	.3
92406	IN	65	.0	39	20	.0	62	.0	350	20	.0	362	.2	31	40	.1	607	.2	46	30	.0
92406	IV	209	.2	36	30	.2	62	.0	310	30	.0	399	.2	44	50	.3	105	.0	66	40	.1
92406	R1	220	.2	27	30	.2	1504	1.4	247	90	1.8	877	.5	62	60	.5	908	.2	115	80	.3
92407	IN	2545	1.5	93	150	1.4	2291	1.8	427	120	1.9	2413	1.6	76	150	1.6	2557	1.3	118	190	1.2
92407	IV	2285	1.5	43	140	1.4	333	.1	183	30	.1	2024	1.6	41	120	1.6	2444	1.3	66	170	1.3
92407	R1	56	.0	61	20	.0	573	.5	121	50	.6	59	.0	73	20	.0	56	.0	101	20	.0

TABLE 5.8-6 FOUR MODE TEST RESULTS (CONT'D)

EPA NO	SEQ	IDLE NEUTRAL LAB HC	IDLE NEUTRAL LAB CO	IDLE NEUTRAL LAB NOX	IDLE NEUTRAL GARAGE HC	IDLE NEUTRAL GARAGE CO	2500 RPM LAB HC	2500 RPM LAB CO	2500 RPM LAB NOX	2500 RPM GARAGE HC	2500 RPM GARAGE CO	IDLE NEUTRAL LAB HC	IDLE NEUTRAL LAB CO	IDLE NEUTRAL LAB NOX	IDLE NEUTRAL GARAGE HC	IDLE NEUTRAL GARAGE CO	IDLE IN GEAR LAB HC	IDLE IN GEAR LAB CO	IDLE IN GEAR LAB NOX	IDLE IN GEAR GARAGE HC	IDLE IN GEAR GARAGE CO
*** 1979 HONDA ***																					
93301	IN	723	.1	56	60	.1	304	.4	64	20	.4	693	.1	51	50	.1					
93301	IV	797	.1	56	100	.1	319	.4	69	70	.4	748	.1	51	100	.1					
93302	IN	950	.1	61	70	.1	552	.2	111	40	.2	882	.1	51	70	.1					
93302	IV	867	.1	56	70	.0	561	.2	108	50	.2	876	.1	51	80	.1					
93303	IN	1204	.1	34	100	.1	417	.2	81	30	.2	1179	.1	39	100	.1					
93303	IV	1170	.1	41	100	.1	433	.3	74	40	.4	1139	.1	36	110	.1					
93304	IN	920	.6	33	80	.6	406	.3	63	40	.3	730	.2	38	60	.1					
93304	IV	896	.3	36	80	.3	418	.2	63	40	.2	755	.2	36	60	.2					
93305	IN	907	.1	49	80	.1	371	.2	71	50	.2	968	.1	39	100	.1					
93305	IV	745	.1	49	70	.0	335	.2	71	40	.2	797	.1	39	80	.1					
93306	IN	567	.1	71	40	.2	381	.3	71	30	.3	558	.2	59	40	.2					
93306	IV	601	.2	69	40	.2	402	.5	64	20	.5	601	.2	59	40	.2					
93307	IN	452	.0	38	30	.0	265	.2	61	20	.2	431	.0	31	30	.0					
93307	IV	388	.0	33	20	.0	253	.1	63	20	.2	369	.0	28	30	.0					
*** 1979 SUBARU ***																					
95501	IN	1109	2.9	61	30	2.7	133	.1	138	0	.1	778	2.6	59	10	2.5	1632	2.8	59	60	2.6
95501	M1	1311	.3	56	120	.3	203	.1	131	50	.1	1038	.4	49	90	.4	1433	.2	54	100	.2
95501	R1	426	.4	58	20	.4	105	.1	138	10	.2	322	.4	53	10	.4	1127	.7	68	60	.8
95502	IN	1103	2.7	59	60	2.6	157	.3	133	10	.4	962	2.7	51	40	2.6	2947	4.1	54	200	3.9
95502	R1	864	1.5	46	80	1.5	117	.1	96	40	.1	567	1.3	43	50	1.3	1923	2.3	46	160	2.1
95503	IN	729	.3	76	40	.3	142	.1	121	10	.1	451	.2	74	20	.2	160	.2	161	60	.2
95504	IN	128	.1	66	20	.1	42	.1	98	10	.1	88	.1	73	20	.1	899	.4	145	40	.4
95505	IN	896	1.8	53	40	1.7	143	.2	113	20	.2	837	1.7	53	40	1.6	1807	2.7	58	120	2.4
95506	IN	797	1.1	46	40	1.1	124	.1	98	10	.1	463	.9	46	20	.9	1096	1.1	53	30	1.0
95507	IN	740	.5	55	40	.5	198	.2	127	10	.2	587	.4	55	40	.4	1260	.5	95	80	.4

TABLE 5.8-6 FOUR MODE TEST RESULTS (CONT'D)

EPA NO	SEQ	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	------2500 RPM----- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE NEUTRAL--- ----LAB--- HC	CO	NOX	GARAGE HC	CO	----IDLE IN GEAR--- ----LAB--- HC	CO	NOX	GARAGE HC	CO
							* 1979 LUV PICKUP *																
95601	IN	507	.5	35	40	.5	198	.2	102	20	.2	311	.4	32	20	.4							
95601	M1	385	.2	90	20	.2	198	.2	82	20	.2	299	.2	32	20	.2							
95602	IN	540	.5	48	50	.6	188	.2	81	30	.3	445	.5	48	40	.6							
95603	IN	509	.4	53	40	.4	246	.2	101	20	.2	454	.5	46	30	.5							
95603	M1	638	.1	51	60	.1	264	.2	128	40	.2	537	.2	48	60	.3							
95604	IN	400	.5	32	20	.4	134	.2	100	20	.2	293	.4	35	20	.4							
95604	M1	394	.1	102	30	.2	158	.1	142	20	.2	281	.1	37	20	.1							
95605	IN	347	.4	46	20	.4	114	.2	86	20	.3	307	.4	43	20	.4							
95606	IN	434	.4	50	40	.4	223	.2	95	20	.2	333	.4	55	30	.4							
							* 1979 CHEV PICKUP *																
95701	IN	215	.0	53	40	.0	81	.0	126	10	.0	172	.0	73	30	.0	87	.0	98	20	.0		
95702	IN	73	.0	20	20	.0	42	.0	77	10	.0	36	.0	30	20	.0	30	.0	32	10	.0		
95703	IN	99	.0	61	20	.0	53	.0	168	20	.0	108	.0	43	20	.0	87	.0	113	20	.0		
95704	IN	353	.0	53	40	.0	124	.0	158	10	.0	286	.0	66	40	.0	179	.0	66	20	.0		
95704	M1	322	.0	53	40	.0	154	.0	155	20	.0	194	.0	58	40	.0	133	.0	83	30	.0		
95705	IN	553	.0	31	40	.0	293	.0	151	20	.0	455	.0	26	50	.2	320	.0	4	40	.0		
95706	IN	180	.0	19	20	.0	171	.5	129	40	.5	88	.0	54	20	.0	79	.0	71	20	.0		

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
						* 1980 JEEP *										
*00101	IN	800919	9469	3000	16.0	.44	6.83	411.2	1.82	1.85	20.9	.05	1.13	317.2	1.74	27.78
*00102	IN	800923	7254	3000	16.0	.37	6.18	417.3	1.78	1.78	20.7	.18	3.31	316.0	2.11	27.56
*00103	IN	800925	7075	3000	16.0	.73	10.90	387.8	1.84	1.74	21.8	.06	1.53	320.3	2.64	27.46
00103	IV	800926		3000	16.0	.72	10.42	391.9	1.49	1.56	21.6	.05	1.51	348.3	1.91	25.28
*00104	IN	801001	9502	3000	16.0	.48	6.86	419.3	1.64	1.62	20.5	.05	1.19	335.7	2.10	26.26
*00105	IN	801002	4963	3000	16.0	.49	5.32	423.6	2.33	2.19	20.5	.04	.65	340.5	.94	25.96
*00106	IN	801009	8011	3000	16.0	.75	4.95	386.9	2.57	2.24	22.3	.06	.36	301.0	2.21	29.39
						* 1980 FAIRMONT *										
*00201	IN	800813	9390	3000	10.8	.22	3.82	438.1	1.44	1.43	19.9	.05	3.16	346.0	.56	25.26
00201	IV	800814		3000	10.8	.33	3.53	439.0	1.67	1.59	19.9	.05	1.54	365.1	.82	24.12
*00202	IN	800813	3826	3000	10.8	.24	3.12	411.5	1.34	1.32	21.3	.06	1.79	335.5	.60	26.20
00202	IV	800814		3000	10.8	.22	1.87	413.5	1.36	1.30	21.3	.05	.94	324.6	.66	27.18
*00203	IN	800814	4624	3000	10.8	.21	3.43	426.0	1.61	1.55	20.5	.03	.29	330.7	1.12	26.77
00203	IV	800818		3000	10.8	.21	3.19	436.3	1.44	1.36	20.1	.03	.20	338.7	.96	26.15
*00204	IN	800821	6300	3000	10.8	.26	3.13	431.3	2.00	1.87	20.3	.05	1.08	351.4	1.09	25.11
*00205	IN	800821	5488	3000	10.8	.18	3.59	445.8	1.59	1.50	19.6	.03	1.34	352.3	.92	25.01
*00206	IN	800821	6824	3000	10.8	.23	1.53	440.5	1.34	1.30	20.0	.04	.18	335.4	.91	26.40
*00207	IN	800821	8685	3000	10.8	.32	1.64	436.9	1.42	1.40	20.1	.09	.01	352.8	1.59	25.11
						* 1980 DATSUN (91 CID) *										
*00302	IN	800826	10308	2250	9.4	.45	8.66	256.5	1.63	1.49	32.7	.06	.36	187.1	2.23	47.21
00302	IV	800827		2250	9.4	.42	7.26	259.7	1.61	1.55	32.6	.07	.30	187.2	2.26	47.20
*00307	IN	801020	4999	2250	9.4	.25	2.91	278.9	2.10	1.96	31.2	.04	.04	196.0	2.48	45.20
*00308	IN	801020	2516	2250	9.4	.35	3.19	258.3	2.18	2.03	33.5	.05	.12	193.2	3.18	45.83
*00309	IN	801020	1215	2250	9.4	.26	2.92	260.8	1.99	1.89	33.3	.04	.05	194.4	2.81	45.56
*00310	IN	801021	4453	2250	9.4	.25	2.77	263.7	2.55	2.23	33.0	.05	.13	195.8	2.89	45.22
*00311	IN	801022	7412	2250	9.4	.26	4.26	271.6	1.97	1.72	31.8	.05	.30	195.3	2.69	45.25

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
						* 1980 DATSUN (85 CID) *										
*00301	IN	800826	4326	2250	9.4	.31	3.33	290.5	1.49	1.42	29.9	.06	.06	208.4	2.05	42.50
*00303	IN	800827	4672	2250	9.4	.26	2.79	290.2	1.75	1.73	30.0	.05	.06	195.7	2.33	45.25
*00304	IN	800828	6409	2250	9.4	.23	3.23	298.3	2.59	2.32	29.2	.05	.05	211.8	3.25	41.83
*00305	IN	800828	4724	2250	9.4	.28	4.64	280.5	2.30	2.20	30.7	.05	.15	192.5	3.07	45.98
*00306	IN	800902	5383	2250	9.4	.34	5.18	277.1	2.15	2.01	31.0	.05	.13	199.3	2.84	44.41
						* 1980 COURIER *										
*00401	IN	800814	3512	3000	11.4	.35	6.53	373.4	1.70	1.58	23.0	.06	.30	269.7	2.48	32.80
00401	IV	800815		3000	11.4	.33	5.41	364.8	1.73	1.62	23.7	.06	.68	268.6	2.53	32.86
00402	IN	800923	7001	3000	11.4	.92	33.50	411.8	1.01	1.02	19.0	.21	7.66	290.3	1.66	29.27
00402	M1	800924		3000	11.4	.47	15.61	428.0	2.46	2.39	19.5	.15	5.95	298.4	2.86	28.78
00402	MV	800925		3000	11.4	.58	17.58	405.1	1.23	1.21	20.4	.11	4.19	286.7	1.81	30.20
00403	IN	800922	5997	3000	11.4	.53	18.28	423.4	1.60	1.52	19.5	.07	2.39	277.8	2.54	31.48
00403	M1	800923		3000	11.4	.32	10.01	417.7	1.56	1.56	20.4	.06	1.73	299.4	2.76	29.33
*00404	IN	800925	7005	3000	11.4	.37	13.69	357.5	1.44	1.46	23.3	.07	2.61	268.5	.87	32.51
00405	IN	800926	7262	3000	11.4	.48	10.52	365.0	1.19	1.16	23.2	.10	1.59	271.2	1.74	32.37
*00405	M1	800929		3000	11.4	.44	6.52	370.7	1.71	1.83	23.2	.09	.66	261.9	2.27	33.69
00406	IN	801002	8661	3000	11.4	.45	8.23	402.7	1.17	1.04	21.3	.11	1.38	277.0	1.61	31.73
*00406	M1	801003		3000	11.4	.57	10.98	366.8	1.21	1.20	23.0	.13	2.70	266.8	1.57	32.67
*00407	IN	801003	6165	3000	11.4	.33	6.98	345.7	1.56	1.41	24.8	.06	2.20	246.8	1.72	35.41
*00408	IN	801006	14711	3000	11.4	.45	9.43	367.6	1.16	1.08	23.1	.09	2.63	271.0	1.50	32.20
						* 1980 GMX BODY (6 CYL.) *										
00501	IN	800822	3738	3000	7.3	.35	2.96	472.7	1.43	1.35	18.5	.10	.29	323.9	1.55	27.31
*00501	R1	801001	4450	3000	6.6	.24	2.94	504.0	1.48	1.39	17.4	.04	.00	338.2	1.58	26.21
00502	IN	800827	2132	3000	7.3	.21	2.09	453.8	2.15	2.13	19.4	.03	.04	305.7	2.37	28.99
*00502	R1	800916	2984	3000	6.6	.20	3.16	465.7	1.72	1.76	18.8	.02	.00	312.6	1.68	28.36
00503	IN	800828	6549	3000	7.3	.16	2.20	450.1	2.23	2.30	19.5	.02	.03	322.5	2.41	27.49
00504	IN	800828	12494	3000	7.3	.20	3.51	462.8	1.67	1.51	18.9	.03	.00	308.6	1.76	28.72
*00505	IN	801001	5307	3000	6.6	.26	4.33	490.7	1.75	1.65	17.8	.07	.00	317.4	2.10	27.92
*00506	IN	800917	2345	3000	6.6	.22	3.84	478.3	1.51	1.51	18.3	.06	.15	298.4	1.41	29.68
*00507	IN	800923	16244	3000	6.6	.17	2.95	453.1	1.68	1.71	19.3	.04	.33	293.8	1.57	30.12
*00508	IN	800923	13847	3000	6.6	.18	3.61	507.1	1.20	1.17	17.3	.03	.09	337.6	1.05	26.25

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
						* 1980 GMX BODY (4 CYL.) *										
*00601	IN	800904	2410	3000	6.6	.38	3.67	421.6	1.60	1.55	20.7	.10	.38	271.0	1.40	32.62
*00602	IN	800922	15599	3000	6.6	.22	3.66	383.6	2.09	1.90	22.7	.03	.00	255.5	1.91	34.70
*00603	IN	800923	10689	3000	6.6	.27	2.10	381.0	3.05	2.78	23.0	.05	.12	268.6	2.40	32.97
*00604	IN	800924	15679	3000	6.6	.29	3.51	367.4	2.48	2.31	23.7	.06	.03	268.5	2.01	32.99
*00605	IN	800925	4710	3000	6.6	.20	2.66	397.1	1.68	1.54	22.1	.03	.07	266.3	1.36	33.27
*00606	IN	800925	14266	3000	6.6	.62	9.43	376.4	2.73	2.49	22.6	.04	.11	255.1	2.45	34.72
00606	IV	800929		3000	6.6	.63	8.58	379.8	2.35	2.41	22.4	.04	.00	263.2	2.45	33.68
						* 1980 MALIBU/CAMARO *										
*00701	IN	800918	4229	3500	11.3	.26	3.13	482.6	1.70	1.64	18.2	.04	.26	353.1	2.03	25.08
*00702	IN	800918	11958	3500	11.3	.29	2.10	468.5	1.45	1.44	18.8	.03	.16	386.3	1.42	22.94
*00703	IN	800925	5581	3500	11.3	.46	10.09	555.4	1.44	1.41	15.5	.03	.93	405.9	1.51	21.77
00703	IV	800926		3500	11.3	.41	9.23	548.6	1.43	1.34	15.7	.03	.60	401.2	1.68	22.04
*00704	IN	800925	10890	3500	11.3	.32	8.08	542.9	1.10	1.05	15.9	.03	.09	374.5	1.41	23.67
*00705	IN	800926	3578	3500	11.3	.30	2.68	509.7	1.80	1.74	17.2	.02	.02	359.4	1.21	24.67
*00706	IN	800929	5499	3500	11.3	.27	4.90	538.6	1.64	1.54	16.2	.02	.04	417.8	1.45	21.22
						** 1978 VW DASHER *										
80201	IN	800821	51956	2500	8.0	1.29	7.28	355.9	3.83	3.71	23.9	.72	2.70	231.8	4.53	37.21
*80201	M1	800825		2500	8.0	1.25	3.31	351.0	3.62	3.54	24.6	.60	1.60	219.5	4.45	39.60
*80202	IN	800822	39366	2500	8.0	1.60	12.22	338.6	2.34	2.21	24.4	1.01	4.28	228.3	2.89	37.23
80203	IN	800825	25782	2500	8.0	1.78	16.44	315.7	2.30	2.15	25.5	.97	4.94	217.8	3.02	38.78
*80203	M1	800826		2500	8.0	1.89	12.54	314.1	2.65	2.43	26.1	.94	3.49	213.6	3.15	39.93
80204	IN	800825	36101	2500	8.0	1.94	11.25	334.3	2.11	2.05	24.8	1.27	3.06	234.8	1.97	36.40
*80204	M1	800826		2500	8.0	1.71	10.91	363.4	2.33	2.22	23.0	.98	3.01	240.2	2.77	35.76
80205	IN	800827	30043	2500	8.0	1.45	22.59	375.2	2.07	1.97	21.4	1.00	8.69	247.9	2.68	33.50
*80205	M1	800828		2500	8.0	1.80	21.00	406.7	1.89	1.74	19.9	1.09	8.09	241.0	3.25	34.48
80206	IN	800902	31392	2500	8.0	1.18	17.96	335.9	2.32	2.08	24.1	.53	3.49	228.4	2.46	37.64
*80206	M1	800903		2500	8.0	2.52	10.27	340.7	1.67	1.52	24.3	.50	2.83	232.2	2.59	37.23

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
								* 1979 MUSTANG *								
91301	IN	800902	14219	3000	10.2	.68	14.40	395.0	1.18	1.14	21.1	.08	.78	288.1	1.73	30.63
91307	IN	800911	16698	3000	10.4	2.34	20.99	418.4	1.45	1.38	19.3	.10	1.17	310.7	1.86	28.35
*91307	M1	800915		3000	10.4	.93	19.28	402.1	1.59	1.53	20.4	.11	1.35	317.3	2.36	27.73
91310	IN	800917	7734	3000	10.4	1.22	32.74	390.7	1.40	1.37	19.9	.15	2.87	313.8	2.56	27.82
*91310	M1	800918		3000	10.4	.74	16.79	405.3	1.26	1.26	20.4	.10	1.52	296.0	2.40	29.69
*91311	IN	800924	22617	3000	10.4	.75	13.62	393.0	1.40	1.35	21.3	.12	1.23	292.8	1.75	30.05
91314	IN	801001	11530	3000	10.4	1.70	38.95	382.1	1.54	1.52	19.8	.19	3.11	321.9	2.55	27.08
*91314	M1	801003		3000	10.4	1.27	24.85	388.5	1.41	1.40	20.6	.15	2.44	305.1	2.13	28.67
91315	IN	801002	12548	3000	10.4	1.23	36.65	399.5	1.40	1.20	19.2	.16	3.18	317.2	2.57	27.48
*91315	M1	801003		3000	10.4	1.18	24.17	402.3	1.48	1.34	20.0	.14	2.39	310.1	2.87	28.22
91317	IN	801006	33227	3000	10.4	1.39	26.31	408.2	5.27	4.98	19.5	.22	2.23	319.3	6.89	27.41
91317	M1	801007		3000	10.4	1.25	23.19	408.8	5.39	5.35	19.7	.21	2.82	320.0	7.47	27.28
*91317	M2	801009		3000	10.4	.68	13.81	413.3	6.44	5.47	20.3	.11	1.22	308.9	7.93	28.50
91318	IN	801010	26096	3000	10.4	.97	28.83	407.7	.89	.81	19.4	.11	2.24	330.8	1.18	26.50
*91318	M1	801016		3000	10.4	.57	14.52	435.3	.97	.88	19.3	.06	1.02	310.7	1.12	28.38
								* 1979 PINTO/BOBCAT *								
91306	IN	800908	19117	2750	10.5	1.16	31.31	378.8	1.20	1.16	20.5	.14	1.99	300.7	1.57	29.15
*91306	M1	800909		2750	10.5	.73	10.77	351.1	.82	.79	23.9	.09	.61	290.4	1.21	30.41
*91308	IN	800911	15887	2750	10.5	.77	16.04	381.3	1.61	1.57	21.7	.11	.88	288.9	1.33	30.51
*91309	IN	800915	13180	2750	10.5	.52	9.35	413.5	1.53	1.45	20.6	.08	.54	322.7	1.96	27.39
91312	IN	800924	22020	2750	10.5	2.75	75.66	336.3	.74	.69	19.1	1.81	48.43	262.0	.99	25.79
*91312	M1	800926		2750	10.5	.38	6.66	415.2	1.09	1.13	20.8	.07	.37	314.9	1.61	28.09
91316	IN	801003	12835	2750	10.5	1.25	33.74	377.4	2.90	2.69	20.4	.15	2.53	302.3	2.01	28.91
*91316	M1	801006		2750	10.5	.69	11.41	391.8	2.66	2.82	21.5	.10	.66	307.1	1.87	28.75

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
						* 1979 FAIRMONT/ZEPHYR *										
91302	IN	800903	26274	3000	11.0	.55	7.75	428.7	1.43	1.37	20.0	.11	.61	324.1	1.84	27.25
*91302	R1	801125	30521	3000	11.8	.52	7.39	436.0	1.99	1.88	19.7	.10	.63	334.2	2.74	26.43
91303	IN	800904	14039	3000	11.8	1.82	40.46	393.4	1.68	1.58	19.2	.24	3.00	339.9	3.17	25.68
*91303	M1	800905		3000	11.8	1.17	16.74	427.9	1.49	1.44	19.4	.17	1.90	348.0	2.82	25.23
91304	IN	800905	12490	3000	11.8	.62	13.65	380.4	4.05	4.34	22.0	.13	1.36	307.1	1.50	28.64
*91304	M1	800908		3000	11.8	.35	7.35	424.2	1.41	1.45	20.3	.07	.46	333.8	2.13	26.49
91305	IN	800908	19103	3000	11.8	.93	25.67	392.0	5.06	4.95	20.4	.10	2.24	291.3	5.90	30.04
*91305	M1	800909		3000	11.8	.70	16.88	425.4	.95	.94	19.5	.13	2.92	307.5	1.63	28.38
91313	IN	800930	23691	3000	11.8	2.13	52.50	375.3	1.78	1.78	19.1	.27	4.03	321.6	2.60	26.98
*91313	M1	801001		3000	11.8	.99	17.93	407.3	2.03	1.97	20.2	.12	1.24	321.4	2.72	27.39
						* 1979 CAPRI *										
*91706	IN	800915	7547	3500	12.3	.54	3.58	514.6	2.47	2.53	17.0	.18	.08	389.2	2.72	22.74
*91707	IN	800916	23879	3500	12.3	.87	12.86	535.6	1.30	1.25	15.9	.27	.19	401.6	1.94	22.02
91708	IN	800918	9671	3500	12.3	5.37	87.78	517.9	5.68	5.48	13.2	1.17	17.16	497.1	7.85	16.80
*91709	IN	800923	20840	3500	12.3	1.06	4.87	545.3	2.14	2.05	15.9	.25	.24	414.0	3.76	21.36
*91710	IN	800923	11544	3500	12.3	.81	2.67	537.0	1.81	1.74	16.3	.34	.08	407.9	1.87	21.68
91711	IN	800926	4894	3500	12.3	.68	2.27	546.8	3.54	3.51	16.1	.23	.02	427.8	3.29	20.69
*91711	M1	800929		3500	12.3	.54	2.60	567.8	2.82	2.69	15.5	.18	.02	423.3	2.95	20.92
*91714	IN	800930	3666	3500	12.3	.64	4.92	514.7	2.58	2.69	16.9	.16	.03	379.1	2.00	23.36
						* 1979 GRANADA/MONARCH *										
*91701	IN	800905	15485	3500	11.1	.83	2.52	506.7	3.33	3.45	17.3	.29	.34	388.3	2.82	22.75
*91702	IN	800905	16757	3500	11.1	1.53	22.27	544.6	5.03	4.85	15.2	.17	1.19	431.9	7.31	20.42
91702	IV	800909		3500	11.1	.51	6.59	592.0	1.96	1.84	14.7	.14	.50	449.5	1.12	19.67
*91703	IN	800910	7559	3500	11.1	.57	3.53	542.4	1.90	1.88	16.1	.19	.31	401.7	1.84	22.02
91705	IN	800912	19201	3500	11.1	.77	6.99	541.7	3.86	4.04	16.0	.10	.26	396.7	4.67	22.31
91705	M1	800915		3500	11.1	.68	15.01	700.1	.59	.65	12.2	.07	3.31	587.5	.70	14.96
91712	IN	800926	15584	3500	11.1	1.78	23.83	552.2	1.35	1.27	14.9	.45	.56	424.2	2.32	20.79
*91712	M1	800929		3500	11.1	1.55	20.69	559.0	1.29	1.26	14.9	.41	.51	428.8	1.95	20.58
*91713	IN	800930	9680	3500	11.1	.82	5.99	616.6	.95	.96	14.1	.22	.43	426.7	.99	20.72

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
								* 1979 CAMARO *								
*92101	IN	800804	5091	4000	12.2	.51	3.99	530.4	1.64	1.54	16.5	.04	.03	395.8	1.44	22.39
92101	IV	800805		4000	12.2	.36	3.10	523.0	1.68	1.53	16.8	.04	.01	390.8	1.48	22.69
92102	IN	800801	13466	4000	12.2	1.92	44.36	475.1	.95	.97	16.1	.20	3.13	394.3	1.59	22.18
92102	IV	800804		4000	12.2	1.78	42.10	471.2	.94	.91	16.3	.19	2.95	383.7	1.65	22.80
*92102	M1	800805		4000	12.2	.98	11.65	518.7	1.27	1.15	16.4	.06	.70	386.9	1.83	22.84
92102	MV	800806		4000	12.2	1.11	13.34	531.1	1.26	1.17	16.0	.08	1.01	392.1	1.86	22.51
92103	IN	800806	12898	4000	12.2	1.85	30.56	444.8	3.47	3.39	17.8	.17	1.64	353.1	4.66	24.89
92103	IV	800806		4000	12.2	1.81	30.52	455.6	3.59	3.59	17.4	.17	1.55	343.0	4.46	25.63
*92103	M1	800808		4000	12.2	1.25	11.89	485.1	1.38	1.37	17.5	.06	.18	368.7	1.78	24.02
92103	MV	800811		4000	12.2	1.18	13.39	477.6	1.27	1.29	17.7	.06	.21	363.7	1.65	24.35
92104	IN	800807	11141	4000	12.2	1.35	25.68	492.6	1.21	1.26	16.5	.11	1.34	382.5	1.62	23.04
92104	IV	800808		4000	12.2	1.19	22.27	504.0	1.43	1.35	16.3	.08	.87	386.5	1.88	22.85
*92104	M1	800811		4000	12.2	1.09	18.79	529.1	1.11	1.17	15.8	.07	.96	404.2	1.36	21.85
92104	MV	800812		4000	12.2	.92	16.54	530.2	1.26	1.20	15.9	.05	.46	398.1	1.55	22.23
*92105	IN	800814	13090	4000	12.2	.92	7.14	520.8	2.43	2.30	16.6	.08	.55	380.4	2.70	23.24
92105	IV	800815		4000	12.2	.70	5.42	523.5	2.42	2.22	16.6	.07	.50	370.0	2.36	23.90
92106	IN	800814	10529	4000	12.2	4.09	85.87	425.4	1.07	1.02	15.5	.63	12.01	375.7	1.94	22.36
92106	IV	800818		4000	12.2	4.14	86.43	427.2	1.05	.99	15.4	.58	10.90	364.7	1.84	23.11
92106	M1	800820		4000	12.2	2.32	37.79	498.8	1.11	1.02	15.7	.22	3.85	393.9	1.90	22.14
*92106	M2	800821		4000	12.2	1.90	33.21	503.4	1.02	.96	15.8	.18	3.48	393.3	1.92	22.21
*92107	IN	800818	13927	4000	12.2	.68	12.39	510.5	1.40	1.26	16.7	.12	3.64	377.8	1.60	23.10
92107	IV	800819		4000	12.2	.50	8.58	515.1	1.40	1.32	16.7	.07	1.77	387.7	1.56	22.70

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
						* 1979 CHEVETTE *										
92401	IN	800731	5926	2500	9.2	.78	12.31	332.4	1.14	1.26	25.0	.07	.46	276.9	1.49	31.91
92401	IV	800801		2500	9.2	.65	10.73	331.5	1.30	1.26	25.3	.07	.34	274.1	1.65	32.27
*92401	R1	800916	7086	2500	8.6	.77	12.45	323.4	1.29	1.29	25.7	.08	.49	252.7	1.59	34.95
92402	IN	800731	8671	2500	9.2	.57	5.67	320.0	2.92	2.90	26.8	.07	.31	280.4	2.10	31.55
92402	IV	800801		2500	9.2	.53	5.24	322.3	2.96	2.93	26.7	.07	.26	283.3	2.12	31.24
*92402	R1	800904	9515	2500	8.6	.54	5.54	322.8	3.24	3.06	26.6	.06	.15	282.9	2.18	31.30
92403	IN	800801	9095	2500	9.2	1.09	17.18	331.4	1.22	1.30	24.5	.16	1.76	287.5	1.13	30.50
92403	IV	800804		2500	9.2	1.54	21.75	304.8	1.27	1.18	25.8	.16	1.88	271.9	1.25	32.20
92403	M1	800806		2500	9.2	.51	10.07	330.9	1.19	1.15	25.5	.08	.93	264.9	1.17	33.26
92403	MV	800807		2500	9.2	.49	8.26	334.4	1.32	1.34	25.4	.08	.86	299.9	1.16	29.41
*92403	R1	800908	9508	2500	8.6	.89	14.97	339.1	1.16	1.09	24.3	.17	2.82	301.0	1.07	28.99
92404	IN	800808	8998	2500	9.2	.80	10.51	353.2	1.10	1.12	23.8	.14	3.47	320.9	1.09	27.13
92404	IV	800811		2500	9.2	.71	9.44	348.8	.92	.93	24.2	.13	3.18	323.2	1.03	26.99
92404	R1	800905	9257	2500	8.6	.86	10.57	378.9	1.03	1.06	22.3	.19	3.31	341.2	1.06	25.56
92405	IN	800811	14075	2500	9.2	.80	13.36	309.9	4.75	5.11	26.6	.11	.47	265.6	7.13	33.25
92405	IV	800812		2500	9.2	.69	11.34	317.7	5.50	5.24	26.3	.10	.40	267.2	7.73	33.07
92405	M1	800813		2500	9.2	.73	12.04	297.2	1.34	1.29	27.8	.08	.41	261.2	2.27	33.83
92405	MV	800815		2500	9.2	.74	11.69	310.1	1.78	1.63	26.8	.08	.52	261.0	2.38	33.83
*92405	R1	800911	14712	2500	8.6	.94	14.05	318.3	1.61	1.53	25.8	.14	.69	266.4	2.29	33.10
92406	IN	800814	9240	2500	9.2	.69	18.23	334.9	1.22	1.13	24.2	.08	2.36	301.1	.97	29.07
92406	IV	800815		2500	9.2	.66	15.11	321.0	1.38	1.28	25.6	.08	2.37	291.6	1.00	30.01
*92406	R1	800910	9833	2500	8.6	.82	17.64	333.2	1.26	1.27	24.4	.13	2.77	276.8	.91	31.50
92407	IN	800818	10305	2500	9.2	.70	12.62	316.4	2.17	2.04	26.2	.06	.79	282.7	2.16	31.21
92407	IV	800820		2500	9.2	.57	12.36	343.8	2.53	2.29	24.3	.06	.60	290.9	2.11	30.37
*92407	R1	800912	11312	2500	8.6	.56	9.56	352.8	1.65	1.74	24.0	.06	.65	295.0	1.62	29.94

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
						* 1979 HONDA *										
*93301	IN	800801	15378	2000	9.3	1.43	12.22	331.1	1.88	1.71	25.0	.35	7.50	247.5	2.94	34.06
93301	IV	800804		2000	9.3	.75	14.23	326.1	1.67	1.64	25.3	.32	5.70	241.3	2.81	35.30
*93302	IN	800806	10401	2000	9.3	1.00	13.45	294.1	2.69	2.55	27.9	.68	7.93	233.2	4.88	35.79
93302	IV	800807		2000	9.3	.95	11.14	277.6	2.49	2.39	29.7	.58	8.38	217.7	4.13	38.11
*93303	IN	800806	11124	2000	9.3	1.11	10.96	307.6	2.32	2.15	27.0	.60	4.89	233.7	3.72	36.45
93303	IV	800807		2000	9.3	1.15	11.54	304.3	2.21	2.13	27.2	.60	4.91	230.5	3.50	36.94
*93304	IN	800806	16382	2000	9.3	1.16	9.88	294.4	1.95	1.97	28.3	.56	3.52	211.7	3.16	40.50
93304	IV	800807		2000	9.3	1.10	9.72	301.1	1.97	2.15	27.7	.56	3.18	220.8	3.15	38.96
*93305	IN	800808	13150	2000	9.3	1.04	8.38	299.0	1.79	1.84	28.1	.59	5.03	219.5	2.85	38.69
93305	IV	800811		2000	9.3	1.02	8.76	300.9	1.89	1.85	27.9	.59	4.19	224.1	3.19	38.14
*93306	IN	800808	16659	2000	9.3	1.51	13.06	313.5	1.92	1.84	26.2	.72	7.50	236.2	3.10	35.43
93306	IV	800811		2000	9.3	1.48	14.63	327.7	2.14	2.10	25.0	.80	6.54	239.7	3.35	35.12
*93307	IN	800808	8013	2000	9.3	1.21	9.46	291.4	1.82	1.99	28.6	.57	7.01	220.1	2.85	38.07
93307	IV	800812		2000	9.3	1.36	9.87	297.2	2.00	1.97	28.0	.58	6.38	227.0	3.31	37.12
						* 1979 SUBARU *										
95501	IN	800820	16221	2500	9.1	.96	21.22	334.0	2.50	2.46	23.9	.27	2.78	282.9	2.80	30.78
95501	M1	800821		2500	9.1	1.00	10.53	325.4	2.25	2.22	25.7	.22	2.01	276.7	2.43	31.61
*95501	R1	800910	16738	2250	9.1	.75	10.04	327.2	2.39	2.30	25.7	.16	2.29	279.7	2.82	31.25
95502	IN	800825	5456	2500	9.1	1.03	13.70	329.1	2.38	2.22	25.1	.28	2.23	304.7	2.92	28.69
*95502	R1	800909	5705	2250	9.1	.98	13.07	333.2	1.84	1.98	24.9	.12	1.94	298.8	2.13	29.35
*95503	IN	800903	15051	2250	9.1	.83	8.50	343.8	2.12	1.95	24.7	.30	1.77	301.7	3.03	29.04
*95504	IN	800902	17294	2250	9.1	1.05	10.30	342.2	1.69	1.57	24.5	.09	1.34	286.7	1.58	30.68
*95505	IN	800903	16680	2250	9.1	.82	14.13	306.1	2.15	2.04	26.8	.14	2.61	275.0	3.27	31.73
*95506	IN	800910	19641	2250	9.1	.69	10.66	346.2	1.99	1.90	24.3	.07	1.42	291.0	2.43	30.22
*95507	IN	800910	9757	2250	9.1	1.05	9.32	330.4	2.23	2.47	25.5	.18	2.47	285.2	3.11	30.62

TABLE 5.8-7 FTP & HFET TEST RESULTS

EPA NO	SEQ	DATE	ODOM	IW	AHP	FTP HC	FTP CO	FTP CO2	FTP NOX	FTP NOXC	FTP MPG	HFET HC	HFET CO	HFET CO2	HFET NOX	HFET MPG
						* 1979 LUV PICKUP *										
95601	IN	800916	13199	3000	10.3	.92	18.33	367.3	2.20	2.18	22.2	.47	6.97	236.5	2.20	35.62
*95601	M1	800917		3000	10.3	.94	14.49	366.2	2.02	2.00	22.6	.38	7.03	254.7	1.87	33.22
*95602	IN	800917	12733	3000	10.3	1.14	36.12	387.3	1.26	1.20	19.8	.50	23.72	271.2	1.42	28.60
95603	IN	800918	5858	3000	10.3	.91	17.28	389.9	2.38	2.27	21.1	.38	10.42	277.8	2.16	30.02
*95603	M1	800919		3000	10.3	1.18	15.19	386.0	2.41	2.34	21.4	.43	9.90	280.6	2.10	29.81
95604	IN	800919	15325	3000	10.3	.85	19.36	365.1	2.26	2.31	22.3	.38	9.45	254.9	2.28	32.73
*95604	M1	800922		3000	10.3	.87	16.78	360.9	2.46	2.32	22.7	.36	7.23	238.7	2.34	35.30
*95605	IN	800923	10488	3000	10.3	.94	15.45	383.6	2.00	1.95	21.6	.24	7.67	282.6	1.95	30.03
*95606	IN	801001	8504	3000	10.3	.77	13.38	419.9	1.52	1.48	20.0	.16	6.59	296.2	1.26	28.88
						* 1979 CHEV PICKUP *										
*95701	IN	800924	12173	4500	16.2	.67	6.96	655.0	2.33	2.20	13.3	.09	.16	546.9	2.30	16.20
*95702	IN	800929	13311	4500	16.2	.57	6.50	652.7	1.76	1.73	13.3	.06	.05	487.4	1.52	18.19
*95703	IN	801002	11747	4500	16.2	.85	17.18	650.8	1.91	1.69	13.0	.19	5.26	513.3	2.74	16.98
95704	IN	801009	16544	4500	16.2	.57	8.26	639.7	2.04	1.73	13.6	.06	.19	496.0	2.78	17.86
*95704	M1	801014		4500	16.2	.59	9.32	661.7	1.93	1.75	13.1	.06	.23	508.0	2.19	17.44
*95705	IN	801121	14797	4500	16.2	1.71	16.89	703.9	2.13	2.09	12.1	.20	.89	609.3	2.26	14.51
*95706	IN	801125	11715	4500	16.2	.44	6.30	783.5	2.16	1.97	11.2	.05	.59	679.5	2.48	13.03

TABLE 5.8-8 MAINTENANCE

EPA NO.	MAINTENANCE PERFORMED	COMMENTS
00402	Adjusted Carburetor and Idle Speed	FTP CO and HC results were significantly reduced, but still above Federal standards.
00403	Adjusted Carburetor and Idle Speed.	FTP CO and HC results were significantly reduced, but CO still above Federal standards.
00405	Adjusted Carburetor, Idle Speed and Timing.	FTP emissions were reduced to Federal standards.
00406	Adjusted Carburetor, Idle Speed and Timing.	No emissions improvement.
80201	Adjusted Idle Speed, Timing, and Dwell. Replaced EGR.	Minor reduction of FTP HC and CO emissions. NO_x still above Federal standards.
80203	Adjusted Carburetor, Idle Speed and Dwell.	CO emissions reduced to Federal standards, but HC still high.
80204	Adjusted Carburetor, Idle Speed and Timing.	Minor reduction of HC and CO emissions, but HC still high.
80205	Adjusted Carburetor, Idle Speed and Dwell.	No emissions improvement.
80206	Adjusted Carburetor.	CO emissions reduced to Federal standards, but HC increased.
91303	Adjusted Carburetor and Idle Speed.	Significant reduction of HC and CO emissions.
91304	Adjusted Carburetor and unplugged EGR.	HC, CO and NO_x emissions reduced.
91305	Adjusted Carburetor and unplugged EGR.	HC, CO and NO_x emissions significantly reduced.
91306	Adjusted Carburetor and Idle Speed.	Significant reduction of HC and CO emissions.
91307	Adjusted Carburetor and Timing.	Minor reduction of CO emissions and significant reduction of HC.
91310	Adjusted Carburetor and Idle Speed.	Significant reduction of HC and CO emissions.

TABLE 5.8-8 MAINTENANCE (CONT'D)

EPA NO.	MAINTENANCE PERFORMED	COMMENTS
91312	Replaced Carburetor and adjusted Idle Speed.	Significant reduction of HC and CO emissions.
91313	Adjusted Carburetor and Idle Speed.	Significant reduction of HC and CO emissions.
91314	Adjusted Carburetor and Idle Speed.	HC and CO emissions reduced but CO still high.
91315	Adjusted Carburetor, Idle Speed and Timing.	HC and CO emissions reduced, but CO still high.
91316	Adjusted Carburetor and Idle Speed.	Significant reduction of HC and CO emissions.
91317	Replaced Carburetor and adjusted Idle Speed.	Significant reduction of HC and CO emissions. NO_x high.
91318	Adjusted Carburetor and Idle Speed.	Significant reduction of HC and CO emissions.
91705	Reconnected EGR vacuum line (unable to repair mechanical advance.)	NO_x significantly reduced, but extreme loss of fuel economy.
91711	Adjusted Carburetor, Idle Speed and Timing.	NO_x emissions reduced, but still above Federal standards. No change to HC and CO (both within Federal standards.)
91712	Adjusted Choke.	Minor reduction in HC and CO emissions.
92102	Adjusted Carburetor and Idle Speed. Replaced Air Filter.	Significant reduction of HC and CO emissions.
92103	Adjusted Carburetor and Idle Speed. Unplugged EGR,	Significant reduction of HC, CO and NO_x emissions.
92104	Adjusted Carburetor and Timing. Replaced Air Filter.	Reduced HC and CO emissions.
92106	Adjusted Carburetor and Idle Speed.	Significant reduction of HC and CO emissions, however, both still above Federal standards.
92403	Adjusted Carburetor and Idle Speed.	HC and CO emissions reduced to Federal standards.

TABLE 5.8-8 MAINTENANCE (CONT'D)

EPA NO.	MAINTENANCE PERFORMED	COMMENTS
92405	Adjusted Carburetor and reconnected EGR vacuum line.	NO_x emissions reduced to Federal standards. HC and CO remained within Federal standards.
95501	Adjusted Carburetor and Idle Speed.	Significant reduction of CO. HC and CO within Federal standards.
95601	Adjusted Carburetor, Idle Speed and Dwell. Replaced Air Filter.	CO emissions reduced. All emissions within Federal standards.
95603	Adjusted Carburetor and Idle Speed.	CO emissions reduced to Federal standards.
95604	Adjusted Carburetor and Idle Speed.	Minor reduction in CO emissions.
95704	Corrected Air Cleaner Lid Configuration (turned over)	No change to emissions. (Within Federal Standards.)